NUMBERS & ODDITIES
a.k.a. the Spooks Newsletter
Edition #131, August 2008

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NUMBERS & ODDITIES http://www.ary.luna.nl

ONLINE DATABASE http://www.spynumbers.com/numbersDB/

Welcome to yet another edition of Numbers & Oddities. Before I get to the station info, I'd like to draw your attention to a news item from August 8th and to two books that were published earlier this year.

- RUSSIA
Interfax reports that Prime Minister Vladimir Putin has said that Russia should restore its influence in Cuba and in other countries. Putin said that after Deputy Prime Minister Igor Sechin had briefed Putin about his meeting with President Raul Castro of Cuba. I wonder if this means that Russia will be using the SIGINT facilities on the island again.

- CIA
A new book concerning the CIA was published in June 2008. The title of the book is "SPYCRAFT - The secret History of the CIA's SPYTECHS from Communism to Al-Qaeda" by Wallace, Melton, Schlesinger and Tenet. ISBN 978-0-525-94980-0 Note that Mr Wallace is the former director of the CIA's Office of Technical Service. http://www.ciaspycraft.com/

Robert mailed me that he found a reference in this book about numbers stations. He writes "This is the only book by former CIA personnel that I am aware of that acknowledges that CIA was responsible for some of the HF numbers broadcasts. The book contains several references to numbers stations. For instance on page 37 "agent receive communications" are introduced. The following is a direct quote from the book. "These encoded messages, known as OWVL, were broadcast over shortwave frequencies at predetermined times from a CIA operated transmitter in Western Europe. Penkovsky listened to these messages on a Panasonic radio - strings of numbers read in a dispassionate voice - and then decoded them using a one time pad."

- STASI
Another book, published in February, that mentions numbers transmissions several times is "Seduced by Secrets: Inside the Stasi's Spy-Tech World" by Kristie Macrakis. ISBN-13: 9780521887472 http://www.seducedbysecrets.com

I just started reading the book and it is indeed interesting stuff.

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* VOICE STATIONS *

::: E03

The Lincolnshire Poacher is off the air.

::: E03a (E04)

Cherry Ripe, the sister station of the Lincolnshire Poacher, is still on the air. I have asked dxers in Japan and Australia to check the last confirmed schedules (see below). They have found a number of them but the signal is often bad and difficult to hear.

Last confirmed schedules (early 2008)

UTC	Frequencies		Sun	Mon	Tue	Wed	Thu	Fri	Sat
0000	14730	18864	-	x	x	x	x	x	-
0100	18864	21866	-	x	x	x	x	x	-
0200	18065	?	-	x	x	x	x	x	-
0500	16525	18465	-	x	x	x	x	x	-
0600	18465	22645	-	x	x	x	x	x	-
0700	20610	21685	-	x	x	x	x	x	-
1000	20474	23461	-	x	x	x	x	x	-
1100	18864	23461	-	x	x	x	x	x	-
1200	18864	23461	-	x	x	x	x	x	-
1300	18864	21866	-	x	x	x	x	x	-
2200	18864	24644	x	x	x	x	x	-	-
2300	18864	21866	x	x	x	x	x	-	-

The following transmissions have been copied by Tomonori, Eddy and Mike L.
Thanks for listening gents!!

20474 04-8 1003
21866 15-8 0111
18864 11-8 1120
23461 11-8 1120
18864 14-8 1315
21866 14-8 1315
18864 14-8 2305
18864 15-8 0012
16525 18-8 0502 Id 20150
18465 18-8 0502 Id 20150

18864 18-8 2205
24644 18-8 2212
18864 18-8 2305 Id 24122
21866 18-8 2305 Id 24122
18864 19-8 0004 Id 09628
20610 19-8 0730
16525 21-8 0504
18465 21-8 0504
18864 22-8 0002 Id 02003
18864 24-8 2328
18864 25-8 0008 Id 24122
18864 25-8 2306 Id 24122
21866 25-8 2306 Id 24122
18864 25-8 0002 Id 09628

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::: E10

Not very exiting lately. The strings are definitely gone. This one can be heard frequently but not more than a couple of times a month.
6575 kHz, 03-8, 2133 UTC: HNCS

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::: V13

New Star was heard on 11430 kHz on 18-8 at 0715 UTC

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::: V24

Copied on 6215 kHz on 18-8 at 1405 UTC

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* MORSE STATIONS *

::: MX

The European cluster beacons D, P, S and C have been heard on most of their usual frequencies.

Asian beacons F and K were not reported. M has been noted on 13528.4 kHz

Channel markers:

P : 420, 3256, 3291, 3327, 3699.5, 4043, 4828, 5111 kHz
R : 4325.9, 5465.9 kHz
V : 3658 kHz

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::: M89

V QPZM QPZM QPZM de WOXN WOXN on 7568.0, 7833.0 kHz

V CP17 CP17 CP17 de L9CC L9CC on 3556.4, 3557.5, 3561.5, 3565.5, 7041.0,
7057.1, 7058.5, 7059.0, 7059.1, 7059.2,
7063.1, 7063.3, 7063.9, 7064.3, 7064.8,
7065.3, 7065.4, 7066.3, 7066.5, 7067.0,
7068.6, 7069.6, 7070.0, 7072.9, 7073.0,
7075.5, 7077.0, 7078.0, 7079.0, 7082.0,
7088.0 kHz

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* VARIOUS MODES *

Heard almost daily:

S28 Buzzer on 4625 kHz
S30 Pip on 3756 kHz
S32 Squeaky Wheel on 3828.9 kHz

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::: M42 & X06

 8173.5 20-7 1915 DOSC. Mode: Crowd36
11438.0 04-8 1551 Mazielka. Sequence: 532614
 8005.5 05-8 0823 DOSC. Mode: Crowd-36
12149.0 05-8 0941 Mazielka. Sequence: 154263
12100.0 06-8 0716 Mazielka: 6 tone rising scale
 9288.0 08-8 0813 Mazielka. Sequence: 356412
15828.0 08-8 1021 Mazielka. Sequence: 256134
 9923.0 08-8 1518 Mazielka. Sequence: 463125
11417.0 08-8 1554 DOSC, in progress. Mode: Crowd-36
16025.0 10-8 1736 Mazielka. Sequence: 156234
12224.0 10-8 1749 Mazielka. Sequence: 463125
10127.0 11-8 0803 Mazielka. Sequence: 421635
 9145.0 11-8 1807 Mazielka. Sequence: 154632
10550.0 11-8 1840 Mazielka. Sequence: 214356

 8105.0 11-8 1905 Mazielka. Sequence: 314265
 6958.0 11-8 1904 Mazielka. Sequence: 154632
 8105.0 11-8 1905 Mazielka. Sequence: 314625
 6959.0 11-8 1908 Mazielka. Sequence: 154632
11472.0 11-8 1910 Mazielka. Sequence: 325614
12226.0 11-8 1912 Mazielka. Sequence: 463125
12186.5 12-8 1857 DOSC. Mode: Crowd-36
13417.5 12-8 1909 DOSC. Mode: Crowd-36
11411.0 12-8 1812 Mazielka. Sequence: 164532
13493.0 12-8 0856 Mazielka. Sequence: 542136
12224.0 12-8 1452 Mazielka. Sequence: 463125
10515.5 13-8 0734 DOSC. Mode: Crowd-36
11412.5 13-8 0742 DOSC. Mode: Crowd-36
12224.0 13-8 1354 Mazielka. Sequence: 463125
12224.0 13-8 1400 Mazielka. Sequence: 463125
12100.0 13-8 1533 Mazielka. Sequence: 612534
10218.0 13-8 1804 Mazielka. Sequence: 246531
12186.0 14-8 0604 Mazielka
11572.0 14-8 0605 Mazielka. Sequence: 164532
11411.0 14-8 0606 Mazielka. Sequence: 164532
12224.0 14-8 0609 Mazielka. Sequence: 463125
13506.0 14-8 0611 Mazielka. Sequence: 164532
 8131.0 14-8 0624 Mazielka. Sequence: 164532
12100.0 14-8 1006 Mazielka. Sequence: 612534
12224.0 14-8 1200 Mazielka
12186.0 14-8 1226 Mazielka. Sequence: 214356
12158.0 14-8 1522 Mazielka. Sequence: 564213
10535.0 14-8 1531 Mazielka. Sequence: 564213
12186.0 14-8 1226 Mazielka. Sequence: 214356
12215.0 15-8 1017 Mazielka
12186.0 15-8 1132 Mazielka. Sequence: 214356
12100.0 15-8 1424 Mazielka. Sequence: 612534
 9253.0 15-8 2030 Mazielka. Sequence: 214356
 9145.0 18-8 1944 Mazielka. Sequence: 154632
 9145.0 18-8 1948 Mazielka. Sequence: 154632
13933.0 19-8 0820 Mazielka. Sequence: 246531
14812.0 19-8 0931 Mazielka. Sequence: 246531
14650.0 19-8 1401 Mazielka. Sequence: 215346
12100.0 19-8 1408 Mazielka. Sequence: 612534
 9106.0 19-8 1443 Mazielka. Sequence: 463125
12224.0 20-8 1324 Mazielka. Sequence: 463125
13388.5 20-8 1727 DOSC. Mode: Crowd-36
16350.5 22-8 0842 DOSC. Mode: Crowd-36
12209.0 23-8 1250 Russian Intelligence broadcasting multi figure group message
                    Mode: Baudot 200.33Bd/500Hz
14832.0 24-8 1240 Russian Intelligence broadcasting same multi figure group as
                    on 12209 kHz. Mode: Baudot 200.33Bd/500Hz
12177.0 25-8 0755 Mazielka. Sequence: 641523

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10127.0  25-8 0825  Mazielka. Sequence: 421635
10372.0  25-8 0943  Mazielka. Sequence: 431625
14655.0  25-8 1400  DOSC. Mode: Crowd-36
13961.0  26-8 0745  Mazielka. Sequence: 216354
14970.0  26-8 0821  Mazielka. Sequence: 216354 followed by msg in Crowd36 mode
16257.0  26-8 0827  Mazielka. Sequence: 542136
14970.0  26-8 0837  Mazielka. Sequence: 216354
14655.0  27-8 0845  DOSC. Mode: Crowd-36
14655.0  26-8 1400  DOSC. Mode: Crowd36
12224.0  26-8 1627  Mazielka. Sequence: 463125
 9061.0  27-8 0759  Mazielka. Sequence: 412356
 6800.0  27-8 1955  Mazielka. Sequence: 612534
 9111.0  29-8 1222  Russian Intel. Broadcasting a single 5FG to recipient 151.
                    Mode: USB/MFSK-20/10bd
 9132.0  29-8 2159  DOSC. Offline crypto to unid embassy on link 10042
                    Mode: 32 tone MFSK
 9145.0  29-8 2205  DOSC. Mazielka
11421.0  30-8 2014  Russian Intel. Auto broadcasting null msg.
                    Mode: Baudot 200bd/500Hz
 9059.0  30-8 2020  Russian Intel. Auto broadcasting null msg.
                    Mode: Baudot 200bd/500Hz

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::: SK01

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17436   04-8  1615  RDFT  4 sets digital msgs
17435   04-8  1630  RDFT  Several bursts
 6826   17-8  0600  RDFT  Bursts
17435   21-8  1600  RDFT  signal passing file 16327338.txt
16178   21-8  1630  RDFT  signal passing file 16327338.txt
17435   22-8  1610  RDFT  passing file 16327338.txt
16178   22-8  1630  RDFT  repeat sked of 17435 passing file 16327338.txt
17436   22-8  1600  RDFT  too weak to decode
17436   26-8  1606  RDFT  too weak to decode
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* MILITARY STATIONS *

::: RUSSIAN, CIS, UKRAINIAN MILITARY SSB & CW STATIONS (including M32)

Before I get to the military logs, first an interesting question from Trond. He writes that he has heard a number of strategic flash messages to RDL on 20-8, all using codeword "PODAROK". This codeword, and the not so frequent used codeword "USTRELINA", are possibly connected to some activities of the Russian Nuclear forces. Trond submits the following samples:

At 0856 UTC this message was broadcasted on 18.1 kHz:
"xxx xxx rdl rdl 21856 podarok 01 1325 220 090 1226 00 1310 345 090 1326 k"

Then at 0910 UTC, almost an identical message, but with a small difference:
"xxx xxx rdl rdl 21856 podarok 01 1325 220 090 1226 00 1310 345 090 1226 k"

This message was followed by "xxx xxx" and a long message using Bee 36/50 (T600)
Then later at 0929 UTC, a repeat order, in words identical to the 0910 UTC broadcast:
"xxx xxx rdl rdl 21856 podarok 01 1325 220 090 1226 00 1310 345 090 1226 k"

Later followed up by the regular final broadcast format when "PODAROK" is used:
"xxx xxx rdl rdl 05706 podarok 01 1065 170 045 1343 02 1350 160 100 1343 k"

The 5FG number has changed. Addresses or codesets are changed from 01 and 00 to 01 and 02. Trond was not able to verify which HF channels were used in parallel to the VLF broadcast.

Fritz reacted to Trond's mail with this answer: "Looking trough my log I find that most of the PODAROK messages to be observed in spring and even more often in early autumn, coincidence or strategic messages connected to the forthcoming winter conditions in arctic Russia?? As my ELF observations are not 24/7 I am not able not verify that PODAROK could be connected to ELF transmitter ZEVS on the Kola peninsula, but this facility went off air for a number of weeks last time PODAROK messges was monitored. But this is a VERY LOOOONG shot and most likely just a(nother) coincidence. :-)"

All feedback on the "PODAROK" mystery is very welcome.

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THIS MONTH'S LOGS

18.1 Russian High Command. Mode: FSK morse 75 Hz shift, handkeyed 12 wpm.

Logged on 27-8: "xxx xxx r cr v r cr v 43243 sholast 53013 47 3 k"
† Flash messages directed to†recipients with only letter IDs is very rare on on the VLF strategic command channels.
†
Logged on 29-8: "xxx xxx rdl rdl 37208 35870 walerian 9198 4589 k" // 8136, 10452, 10535, 12741, 12832, 14411, 14664, 16112, 16912, 17460, 19256 kHz.
† "xxx xxx rdl rdl 68325 39838 dana¯ 7261 8701 k" // 8136, 10452, 10535, 12741, 12832, 14411, 14664, 16112, 16912, 17460, 19256 kHz.

Notes: All 3 VLF frequencies, 18.1 kHz, 21.1 kHz and 27.3 kHz have been active with T600 traffic as well as 5FG messages and Flash

Messages using FSK morse. At 0732 utc and 0741 utc) paralell HF traffic was noticed on these 11 frequencies: 8136, 10452, 10535, 12741, 12832, 14411, 14664, 16112, 16912, 17460, 19256 kHz. The Russian ELF station "Zevs" operating on 82 Hz, is also active since a couple of days on 24/7 basis with a continuous carrier and frequent messages in between. Bit length 4 minutes, shift frequency 0.2 Hz.

4797.5 Russian Navy: RJD52 wkg RCRI (Russian Naval Vessel)

5232.0 Russian Navy: RIQ87 traffic

5817.0 Unid (Russian or CIS military???)
"...2Ya2Ya2Ya 35475 2Ya2Ya 35475 3Ya3Ya 78160 KK",
"3Ya3Ya 78177 K 3Ya 78177 K" (Ya: .-.-); T=0.

5901.0 Russian Mil: "DE RZH5 RZH5 R K SK"

6873.0 Russian Navy, Kaliningrad: RMP

6902.0 Russian Mil. "XXX XXX RDL RDL 99999 71292 13642 01711 00111 07347 04748 02204 00426 01745"

7056.0 Russian Mil. 1SBE, NIMK, 3QLP, QSEE, H11N, 6IIS. Radio checks.

7298.0 Russian Navy Vessel RFH77 tfc to RIW after CW-coord. on 9145 kHz RIW: "QYT4 QSX 8623/7298"

7566.0 Russian Navy: RCV. Weather.

7959.0 Russian Air Force, Moscow: REA4

7696.0 Russian Navy. RJF94 wkg RCHN

7959.0 Russian Air Force, Moscow: REA4

8136.0 Russian Mil: RMW32 duplex traffic with RMW36

8345.0 Russian warship: RCIG. "RCIG OK QRU K"

8623.0 Russian Navy Vessel RFH77 tfc to RIW after CW-coord. on 9145 kHz RIW: "QYT4 QSX 8623/7298").

8816.0 Russian naval aircraft. 71403 wkg RJC48 on simplex freq.
"QTO 0815 QRD XRKA UKFA QRE 0925 QBD 5400 k"

9145.0 Russian Navy: RIW wkg RFH61 fr QSA? & RFH77
"QYT4 QSX 8623/7298" to 8623 & 7298 kHz
5LGs-QTC "717 202 24 1531 717= SML FM RCV = ..."

10201.0 Russian Navy Sevastopol: RCV.
"xxx RJV 85771 wstreˆnyj 9556 9602 k"
"xxx RJV 99499 port%vnyj 1571 1588 k"
"xxx RJV 98573 znakowyj 1584 7290 k"

10500.0 Russian Mil. RAZ2 clg RWBH

10535.0 Russian Mil. "XXX XXX"

10921.0 Russian Navy: RMP wkg RFH61 QSX 11429 kHz fr "ZZD", rcvd msg.

11000.0 Russian Navy: RIW clg RFH61

11429.0 Russian Naval Vessel: RFH61 wkg RMP. QSX 10921 kHz

11747.0 Russian warship: RFH61 wkg RIW. See 14556 kHz.

12593.0 Russian Mil: DDZL. Ends bcast of Nr 473: "chPZNO %EPW% 375 K". (Preamble was 473 23 13 1648 473). Requests "R 473 ? K" from GMIM, BT3Y and ZQGK.

13479.0 Russian Air Force, Moscow: REA4 "XXX XXX XXX REA4 01293 BALANVA 1958 4088 (repeats) K"

14096.0 Russian Mil. Q-codes, 5LGs

14108.0 Russian Mil. ZCG4, PTZD, I6LU, Y1CQ, 6GQ5, A1QN, PYTG, YNDK, ZG5L, NF8L, 5CIG, F1A4, ET8U, F1TS, WKPA, SBLR, 1YYS, DGXB, QHBD, WEGI, VHGV, ISFK, TLZT, 5IWR, YHG1, A1QN, YNDK, PYTG, ZG5L. Radio checks, 5LG msgs and "XXX WEGI 24734 WINILISDID 2592 1340"

14148.0 Russian Mil: RGT77

14160.0 Russian Mil. 4FG msgs

14411.0 General Staff VGK Moscow:
"xxx RDL 82035 88975 otwislyj 8237 1021 k"
"xxx RDL 20499 26929 raster%ha 6705 9375 k"
"xxx RKS RDL 65312 02409 wlas%noj 7702 2224 k"
"xxx RKS RDL 23064 14277 gewe% 6824 8911 k"
"xxx RDL 65312 02409 wlas%noj 7702 2224 k" (repeat for RDL only)
"xxx RDL 18466 38708 oblovn%k 6577 9868 borden 1131 8053 k"
"xxx RDL 01012 63384 atnadera 8181 3533 k"
"xxx RDL 98231 64572 gonnardit 8227 9213 k"
"xxx RDL 10836 03386 Èksponent 3992 7497 laskira 7174 8600 virokompas 5508 3261 k"
"xxx RDL 72875 64574 azoturi% 6982 4089 k"
"xxx RDL 82024 75205 bromnyj 1346 1872 k"

"xxx RDL 15355 69466 bastarda 4074 8944 k"

14556.0 Russian Navy: RIW. "RFH61 de RIW QRR3 QDW 11747 K. RIW K". Then calls RGZ58 for message: "RIW 833 292 15 1115 833 = OOOOO RFLXM SCYMT MMMMM URRJZ ..."

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* UTILITY ROUND-UP *

Several DXers have reported an unid station that transmitted a loop containing an old coded message. This is most probably the infamous French pirate that operates quite often on frequencies between 6400 en 6990 kHz.

The station was heard on 4 August at 2015 UTC on 6400 kHz AM. The loop was repeated for hours.

The message was: "Achtung achtung, wir rufen Kaffeekraenzchen, der Kuchen ist angebrannt" followed by a music box melody.

The message is probably an oldie from the former Deutsche Freiheitssender 904.

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::: UNID NUMBERS STATION

Logged by Jon-FL:

7373 kHz, 21-8, 0313 UTC. Unid 5FGs, Cut T, about 13 WPM, ended with R

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::: UNID RTTY STATION

Alf sent us this log of an unid RTTY station and writes "The unid "=50=" RTTY station could be monitored again. Interesting is that it use typical CIS MIL procedure and terms ("SLV") but it use UTC for time!"

5751 kHz: DYFS; unid CIS? 0010 CW clg CIML "QSA NO QSY 95036 95036 K SLV K", "R 332 0017 K" at 0017z & at 0039z "R 225 0039 ... ZZC K" into RTTY-ITA2/50/500 "RYRYRYRYRY 417 138 20 0035" w/end in CW "CFM NIL SK"; 0117z 5FGs in RTTY ("23336 ... 83650 =50= 95338 ... 94969 =100= 50337 ... 02053 - 0117". 20Aug08

Transcript of the message:

RYRYRYRYRYRYRYRYRYRYRY

175 144 20 0232 ...
... 22798 40966 21734 27552 33170 22953 59261
73777 00974 83429 73279 70714 76401 54386 40216 26999 09675
48702 82252 77859 72643 96797 91680 60257 00526 92030 83779
37841 46029 77501 93565 21226 89282 32714 73664 66653 13315
67414 64936 57809 06919 53341 31744 13678 40211 57148 18990 =50=
81072 30791 50526 82195 36948 83396 20876 36267 60512 83959
71005 18667 19948 16464 26922 27090 02126 49895 38448 45691
84375 77574 20752 86340 12345 89586 45976 34488 31077 30886
66080 70442 72748 43223 13371 53279 34986 73999 30936 58007
87281 84045 89563 32356 72665 65706 21753 61251 69195 92533 =100=
98704 24967 58751 87469 29044 66878 91906 04619 60128 36395
66667 94539 57469 27836 22600 98348 80659 42867 41516 42827
54324 45941 04397 10604 13263 26657 81030 49881 43158 78703
90631 70192 28565 22679 66118 16407 53868 75758 79516 05588
15095 05442 62492 28837 - 0239 K

Thanks Alf. The station has been heard before during the past 3 years, see the logs below. The group count reminds me of the habit of the Czech MFA in the 1990's. They did also include a group count after each 50th group.

05121.0 ---: UNID 2323 RTTY//50/N/500 tfc in offline encrypt (5fig grps) word count eg "=50=" "=100=". Occ ry's. Msg hdr (typ) "342 148 8 2300 1547". Freq stops midstream. (8/Nov)(DW)

05351,0 : unid 1747 rtty 50/500 .... 22988 69499 37474 62284 75191 29930 09258 32157 =100= 93289 33924 45865 - 1750 (cfm nil hr ok as sk sk sk sk 16Nov07 (wp3)

09052.0 ---: UNID 1943 RTTY//50/R/500 Tfc in 5fig grps. Each fifty marked =50=, =100=,. Ends with time "1943". Further sigs in cw and "qrx "qrx 85945 85945" (08/Oct)(DW)

09148 : Unid. FAPSI? 1130 RTTY/50/500 In Morse OK. SLD K. Then 35x5FG msg in RTTY: 422 35 24 1130 3711 = 75642 098606 ... 53386 74903 = -1133 K. CFM NIL. OK ZVP SLV K. Marker every 50 groups =50= =100= Morse: QRV K. R 490 1136. SK (24Feb06) (RGA)

10363.0 ---: UNID 1139 RTTY 50/R/500 In cw "qtc1 zzc? " " sldk" followed by rtty msg with tfc in offline encrypt (5 figs). Blocks marked every 50 grps eg =50= =100=. Then offair (27/May)(DW)

11025 : unid EU MIL 1408 RTTY-ITA2/50/500 RYs end w/out id into CW (4graphs calls) OP-chat "ZZC? K", "SLD K", back into RTTY for 101 5FGs ("=50=", "=100=") w/preamble "941 101 29 1400 7513 =".

Time = UTC! 29Mar08 (ALF)

14823.0 unid: 0930 rtty 50/500 rpt cfm qrv ? 152 261 22 0823 9781 then
5l with =50= and =100= after 50/100 groups 2000-11-22 (WP3)

Any info about this station is most welcome.

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::: SATELLITES

Thousands of satellites are in orbit today. They are used for Radio, TV, navigation (GPS), weather predictions, communications, espionage, etc. They are owned and used by governments, military, universities and commercial enterprises. It is an interesting area for many dxers. You do not always need a satellite dish or fancy equipment to listen to these birds. Especially the LEO (Low-Earth Orbiting) satellites are rather easy to catch. Most of them are so-called polar orbiters, meaning that they are flying over the poles, from north to south or the other way around. Many LEO satellites are using downlink frequencies in the VHF or UHF bands <500 MHz. A simple scanner and a table discone antenna are usually enough to hear these satellites. I have mentioned the Russian GONETS system earlier in this column. Here is an update and call for help.

The GONETS LEO (Low-Earth Orbiting) System is global data relay system comprised of LEO satellites, low-cost gateway stations and a fleet of highly portable subscriber terminals for government (military) and commercial use. Russian telecommunications company Gonets SatCom, states that the system can be used for environmental monitoring (geodesy, hydrogy, meteorology), data gathering, control of electric grid, oil-wells, pipe-lines, disaster-stricken, isolated area communications, etc.

History.
Strela-3 (Russian for "Arrow") was a second generation of strategic store-dump military communications satellite. Development of this generation to replace the first generation Strela-1M and Strela-2M satellites began in 1973. A civilian version of the Strela-3 is offered as the Gonets-D series, which shared some launches with Strela-3 satellites. The Gonets system was originally offered to support international health organizations to meet their global communications needs for the transfer of medical data and records to remote sites.

Current situation.
The current Gonets (Russian for "Messenger") system comprises 18 satellites in 2 orbital planes, and the system is planned to grow to 36 satellites in 6 orbital planes once the market is established. One set of 8 satellites entered the incorrect orbit and its plane will drift with respect to the others. Some of the satellites carry digital Store and Forward payloads.

With earlier launches of two 250kg prototype Gonets-D satellites in 1993 and three more Gonets-D1 in 1995, a further three satellites were launched in 1996 at a height of 1400km inclined at 82.5 degrees. Another similar launch of six satellites took place in early 1997. Each of these later two launches also included three similar satellites to make up a similar military constellation. A 1998 launch placed six satellites in a slightly different orbit due to launcher problems.

The Gonets system includes 2 generations of satellites, the Gonets-D1 series and its successor, the Gonets-D1M series. There are also a large number of military Gonets active under the name Cosmos. The current Gonets system ground infrastructure includes a Net Control Center in Moscow, three Gateway Stations in Moscow, Krasnoyarsk (Syberia) and Sakhalin (Far East), and regional relays stations in Alma-Aty (Kazakhstan) and Murmansk (Far North).

Satellite characteristics and frequencies.

Note that both GONETS systems and the military variant are sending an identification bliep every minute.

GONETS-D1 characteristics:

12 satellites in 4 orbital planes
Orbit: 1380 km altitude circular polar
Inclination: 82 degrees
Daily throughput capacity per satellite: 15 Mb/day
Onboard memory capacity: 1,5 Mbyte
Life cycle: 5 years
Data: rate 2700 bps
# of channels per satellite: 1 up- and 1 downlink
Spectrum: 260 MHz

MHZ	Satellite	Catalog	Id
264.8250	Gonets D1.1	23787	min+44 sec
265.0625	Gonets D1.2	23788	min+16 sec
265.1375	Gonets D1.3	23789	min+37 sec
264.4000	Gonets D1.4	24728	min+31 sec
265.1375	Gonets D1.5	24729	min+02 sec
262.9125	Gonets D1-6	24730	min+50 sec
263.0875	Gonets D1-7	27058	Inactive
	Gonets D1-8	27059	Defect
262.9125	Gonets D1.9	27060	min+56 sec

GONETS-D1M characteristics:

15 satellites (eventually 36) in 6-8 orbital planes

Orbit: 1380 km altitude circular polar
Inclination: 82 degrees
Daily throughput capacity per satellite: 270 Mb/day
Onboard memory capacity: 12 Mbyte
Life cycle: 7 years
Data rate: 2700, 4800, 9600 64000 bps
# of channels per satellite 16 up- and 16 downlink
Spectrum: 260 MHz; 312-390 MHz

MHZ	Satellite	Catalog	Id	
?	Gonets D1M1	28909	?	
?	Cosmos 2416	28908	?	(also known as Rodnik)

GONETS Military variant "COSMOS"
Listed are only the satellites that have been heard recently.

MHZ	Satellite	Catalog	Id
244.5125	Cosmos 2384	27055	min+57
244.5125	Cosmos 2385	27056	min+16
244.5125	Cosmos 2386	27057	min+52
244.5125	Cosmos 2390	27464	min+08
244.5125	Cosmos 2391	27465	min+29
244.5125	Cosmos 2400	27868	min+36
244.5125	Cosmos 2401	27869	min+02
244.5125	Cosmos 2408	28419	min+19
244.5125	Cosmos 2409	28420	min+44
244.5125	Cosmos 2437	32954	min+48
244.5125	Cosmos 2438	32955	min+07
244.5125	Cosmos 2439	32956	min+39

Another frequency that is used by so far unid Gonets/Cosmos satellites (or others) is 261.0375 MHz. We still have no idea which satellites are using this frequency. An interesting fact is that Cosmos 2337, 2338 and 2339 are often within range when the bursts are heard, but not always. Assuming that we're hearing those 3 satellites, an additional 3 or 4 other satellites must be using it too.

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* LOGS SECTION *

420	MX	Mode: CW Date/time: 20-8-2008, 2110 UTC
		Remarks: Channel marker "P" Contr: (AnEur)
7335	S06	Mode: AM Date/time: 27-8-2008, 0730 UTC
		Remarks: 745 210 6 Contr: (FN)
1743.0	V02a	Mode: AM Date/time: Sat 16-8-2008, 1700 UTC

		Remarks: spanish numbers station Contr:
2682	M51	Mode: CW Date/time: 19-8-2008, 0033 UTC
		Remarks: NR 31 A 19 02:38:31 1986 BT 3OHQZ
		WOVQM Contr: (BCI)
2743	E10	Mode: AM Date/time: 28-8-2008, 2134 UTC
		Remarks: ULX msg grp 74 [MRMLL] //4880 Contr: (KK2)
2743	E10	Mode: AM Date/time: 29-8-2008, 2134 UTC
		Remarks: ULX msg grp 83 [VMTNQ] //4880 Khz Contr: (KK2)
2743	E10	Mode: AM Date/time: 31-8-2008, 2029 UTC
		Remarks: ULX2 Contr: (SW2)
3150	E10	Mode: AM Date/time: 26-8-2008, 1904 UTC
		Remarks: PCD 2 msgs msg1 grp 87 [OKPTR] end 1915z.
		msg 2 grp 63 [IQFFN] end 1923z / Contr: (KK2)
3256	MX	Mode: CW Date/time: 7-8-2008, 2214 UTC
		Remarks: Channel marker "P" Contr:
3270	E10	Mode: AM Date/time: 27-8-2008, 2314 UTC
		Remarks: ULX rpt msg grp 74 [MRMLL] Contr: (SW2)
3270	E10	Mode: AM Date/time: 31-8-2008, 2115 UTC
		Remarks: ULX rpt msg grp 83 [VMTNQ] Contr: (SW2)
3291	MX	Mode: CW Date/time: 7-8-2008, 2218 UTC
		Remarks: Channel marker "P" Contr:
3327	MX	Mode: CW Date/time: 9-8-2008, 2122 UTC
		Remarks: Channel marker "P" Contr: (AB)
3415	E10	Mode: AM Date/time: 28-8-2008, 2103 UTC
		Remarks: ART2 Contr: (KK2)
3415	E10	Mode: AM Date/time: 31-8-2008, 2033 UTC
		Remarks: ART2 //5435 Khz Contr: (SW2)
3556.4	M89	Mode: CW Date/time: 8-8-2008, UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
3557.5	M89	Mode: CW Date/time: 7-8-2008, UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
3561.5	M89	Mode: CW Date/time: 4-8-2008, 2300 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
3565.6	M89	Mode: CW Date/time: 3-8-2008, UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
3640.5	M51	Mode: CW Date/time: 22-8-2008, 1834 UTC
		Remarks: NR 69 A 11 21:09:27 1986 BT GKFNS TESSV
		JMUYR Contr: (BCI)
3658	MX	Mode: CW Date/time: 4-8-2008, 2042 UTC
		Remarks: Channel marker "V" Contr: (AB)
3658	MX	Mode: CW Date/time: 9-8-2008, 2119 UTC
		Remarks: Channel marker "V" + short garbled messages
		(very noisy freq) Contr: (AB)
3658	MX	Mode: CW Date/time: 30-8-2008, 1933 UTC
		Remarks: Channel marker "V" Contr: (AB)
3699.5	MX	Mode: CW Date/time: 7-8-2008, 2346 UTC
		Remarks: Channel marker "P" Contr:
3756	S30	Mode: CW Date/time: 2-8-2008, 1828 UTC

		Remarks: Pip Contr: (AB)
3756	S30	Mode: CW Date/time: 26-8-2008, 2008 UTC
		Remarks: Pip Contr: (AB)
3756	S30	Mode: CW Date/time: 30-8-2008, 1931 UTC
		Remarks: Pip Contr: (AB)
3772.0	MX	Mode: CW Date/time: Thu 7-8-2008, 1951 UTC
		Remarks: ⋆--⋆ [P/≠] Contr: (DXman)
3828.9	S32	Mode: USB Date/time: 5-8-2008, 1755 UTC
		Remarks: Squeaky Wheel Contr: (AB))
3828.9	S32	Mode: USB Date/time: 30-8-2008, 1931 UTC
		Remarks: Squeaky Wheel Contr: (AB)
3840	E10	Mode: AM Date/time: 28-8-2008, 2304 UTC
		Remarks: YHF msg grp16 BNYJD LUMMD DPLEK MIWQI NATDX FKIKW AAGDL SQMWB GYJPD VEZST Contr: (SW2)
3840	E10	Mode: AM Date/time: 29-8-2008, 2215 UTC
		Remarks: YHF rpt msg grp 76 [VKPSL] Contr: (KK2)
3840	E10	Mode: AM Date/time: 31-8-2008, 2032 UTC
		Remarks: YHF2 //4560 Khz Contr: (SW2)
4043	MX	Mode: CW Date/time: 14-7-2008, 1244 UTC
		Remarks: Channel marker "P" Contr:
4165.0	E10	Mode: AM Date/time: Mon 11-8-2008, 1634 UTC
		Remarks: Jamming. Contr: (DXman)
4270	E10	Mode: AM Date/time: 26-8-2008, 1904 UTC
		Remarks: PCD 2 msgs msg1 grp 87 [OKPTR] end 1915z. msg 2 grp 63 [IQFFN] end 1923z / Contr: (KK2)
4270	E10	Mode: AM Date/time: 28-8-2008, 2104 UTC
		Remarks: PCD msg grp18 [GCUOB] Contr: (KK2)
4270	E10	Mode: AM Date/time: 29-8-2008, 2104 UTC
		Remarks: PCD msg grp 41 [MWCEV] Contr: (KK2)
4270	E10	Mode: AM Date/time: 31-8-2008, 2032 UTC
		Remarks: PCD2 Contr: (SW2)
4325.9	MX	Mode: CW Date/time: 2-8-2008, 1827 UTC
		Remarks: Channel marker "R" Contr: (AB)
4325.9	MX	Mode: CW Date/time: 31-8-2008, 2051 UTC
		Remarks: Channel marker "R" Contr: (AB)
4411	M51	Mode: CW Date/time: 19-8-2008, 2029 UTC
		Remarks: NR 86 A 19 23:04 19 1986 BT VJVMG ILCOR EIVGHJ Contr: (BCI)
4478.0	M08a	Mode: CW Date/time: Sat 2-8-2008, 1100 UTC
		Remarks: 5-fig cut numbers 25602 57131 75222 Contr: (Westli)
4478.0	M08a	Mode: CW Date/time: Sat 16-8-2008, 1100 UTC
		Remarks: 5-fig cut numbers 56412 41372 .4032 weak/fading IDs doubtful Contr: (Westli)
4496	M51	Mode: CW Date/time: 1-8-2008, 1920 UTC
		Remarks: NR 61 J 26 21:20:02 1990 = ZNPVU EQCIT ... NQIVC JIOJA = ... Contr: (MPJ)

4496 M51 Mode: CW Date/time: 22-8-2008, 1704 UTC
Remarks: in progress Contr: (BCI)
4557.7 MX Mode: CW Date/time: 31-8-2008, 2048 UTC
Remarks: Cluster beacon "D" Contr: (AB)
4557.9 MX Mode: CW Date/time: 31-8-2008, 2048 UTC
Remarks: Cluster beacon "S" Contr: (AB)
4560 E10 Mode: AM Date/time: 28-8-2008, 2102 UTC
Remarks: YHF2 Contr: (KK2)
4560 E10 Mode: AM Date/time: 29-8-2008, 2133 UTC
Remarks: YHF2 //5820 Khz Contr: (KK2)
4560 E10 Mode: AM Date/time: 31-8-2008, 1735 UTC
Remarks: in progress Contr: (AB)
4560 E10 Mode: AM Date/time: 31-8-2008, 2032 UTC
Remarks: YHF2 //3840 Khz Contr: (SW2)
4560 E10 Mode: AM Date/time: 31-8-2008, 2104 UTC
Remarks: YHF2 Contr: (SW2)
4625 S28 Mode: AM Date/time: 4-8-2008, 2040 UTC
Remarks: Buzzer Contr: (AB)
4625 S28 Mode: AM Date/time: 26-8-2008, 2008 UTC
Remarks: Buzzer Contr: (AB)
4625 S28 Mode: AM Date/time: 30-8-2008, 1932 UTC
Remarks: Buzzer Contr: (AB)
4828 MX Mode: CW Date/time: 14-7-2008, 1152 UTC
Remarks: Channel marker "P" Contr:
4848 M01B Mode: CW Date/time: Fri 1-8-2008, 1820 UTC
Remarks: 210-974/22=74118 Contr: (HFD)
4880 E10 Mode: AM Date/time: 28-8-2008, 2134 UTC
Remarks: ULX msg grp 74 [MRMLL] //2743 Contr: (KK2)
4880 E10 Mode: AM Date/time: 29-8-2008, 2134 UTC
Remarks: ULX msg grp 83 [VMTNQ] //2743 Khz Contr: (KK2)
4880 E10 Mode: AM Date/time: 31-8-2008, 1735 UTC
Remarks: in progress Contr: (AB)
5111 MX Mode: CW Date/time: 7-7-2008, 0730 UTC
Remarks: Channel marker "P" Contr:
5111 MX Mode: CW Date/time: 12-8-2008, 1636 UTC
Remarks: Channel marker "P", Kaliningrad Contr: (BCI)
5117.0 V02a Mode: AM Date/time: Mon 4-8-2008, 0400 UTC
Remarks: SSYL 5-fig atencion: 37311 53381 81232
also weak, poor readability Contr: (Westli)
5117.0 V02a Mode: AM Date/time: Mon 25-8-2008, 0400 UTC
Remarks: SSYL 5-fig atencion: 78263 79621 57012
Contr: (Westli)
5125 M01b Mode: CW Date/time: 18-8-2008, 1810 UTC
Remarks: 364 983 31 - 73497 Contr: (RiN)
5135.0 V02a Mode: AM Date/time: Thu 28-8-2008, 1300 UTC
Remarks: SSYL 5-fig atencion: 14232 67502 weak IDs
questionable Contr: (Westli)
5150 M01 Mode: CW Date/time: 25-8-2008, 1915 UTC

		Remarks: 858 983 31 == -7389 .... == 983 983 31 31 000 QSA0/1 Contr: (FN)
5150	M01b	Mode: CW Date/time: 18-8-2008, 1915 UTC Remarks: 858 983 31 - 73497 etc Contr: (RiN)
5153.7	MX	Mode: CW Date/time: 4-8-2008, 2038 UTC Remarks: Cluster beacon "D" Contr: (AB)
5153.7	MX	Mode: CW Date/time: 30-8-2008, 1945 UTC Remarks: Cluster beacon "D" Contr: (AB)
5153.8	MX	Mode: CW Date/time: 26-8-2008, 2010 UTC Remarks: Cluster beacon "P" Contr: (AB)
5153.9	MX	Mode: CW Date/time: 30-8-2008, 1945 UTC Remarks: Cluster beacon "S" Contr: (AB)
5153.9	MX	Mode: CW Date/time: 31-8-2008, 1737 UTC Remarks: Cluster beacon "S" Contr: (AB)
5154	MX	Mode: CW Date/time: 30-8-2008, 2035 UTC Remarks: Cluster beacon "C" Contr: (AB)
5154.1	M51	Mode: CW Date/time: 21-8-2008, 0235 UTC Remarks: French Mil, CW training. Contr: (Jon-FL)
5221.5	M21	Mode: CW Date/time: 24-8-2008, 0215 UTC Remarks: PVO =99t615??t????? Contr: (PPA)
5222	M51	Mode: CW Date/time: 12-8-2008, 1622 UTC Remarks: NR 46 A 12 18:33:47 1986 BT RWBQL EWVNT Contr: (BCI)
5407	M51	Mode: CW Date/time: 7-8-2008, 1910 UTC Remarks: NR 73 A 07 21:12:31 1986 BT GBWNF QTDAF ... IQTIH OKWKR = Contr: (MPJ)
5410	M14	Mode: CW Date/time: 19-8-2008, 1915 UTC Remarks: 441 963 104 Contr: (FN)
5410	M14?	Mode: CW Date/time: 7-8-2008, 1917 UTC Remarks: Repeats 441 then 593 593 102 102 = = 40157 40157 16853 16853 ... Hand sent Contr: (MPJ)
5417.0	V02a	Mode: AM Date/time: Fri 1-8-2008, 0200 UTC Remarks: SSYL 5-fig heavy QRM QSB Contr: (Westli)
5417.0	V02a	Mode: AM Date/time: Fri 8-8-2008, 0200 UTC Remarks: SSYL 5-fig weak with deep fading Contr: (Westli)
5417.0	V02a	Mode: USB Date/time: Fri 15-8-2008, 0200 UTC Remarks: In Progress//S700//Brooklyn Contr: (GS)
5435	E10	Mode: AM Date/time: 20-8-2008, 1806 UTC Remarks: GROUP 26 REMKE Contr: (sgdx2000)
5435	E10	Mode: AM Date/time: 24-8-2008, 2330 UTC Remarks: ART2 Contr: (sgdx2000)
5435	E10	Mode: AM Date/time: 31-8-2008, 2033 UTC Remarks: ART2 //3415 Khz Contr: (SW2)
5462	XPA	Mode: AM Date/time: Sat 2-8-2008, 0800 UTC Remarks: msg Contr: (HFD)
5462	XPA	Mode: AM Date/time: Sun 3-8-2008, 0800 UTC Remarks: msg Contr: (HFD)

5465.9 MX Mode: CW Date/time: 2-8-2008, 1827 UTC
Remarks: Channel marker "R" Contr: (AB)
5465.9 MX Mode: CW Date/time: 31-8-2008, 2051 UTC
Remarks: Channel marker "R" Contr: (AB)
5475 M01b Mode: CW Date/time: 18-8-2008, 1810 UTC
Remarks: 364 983 31 - 73497 Contr: (RiN)
5475 M01b Mode: CW Date/time: 18-8-2008, 1915 UTC
Remarks: 858 983 31 - 73497 etc Contr: (RiN)
5737 S11b Mode: USB Date/time: 27-8-2008, 0915 UTC
Remarks: 224/34 77777 77777 96268 Contr: (FN)
5762.0 M08a Mode: CW Date/time: Wed 6-8-2008, 1200 UTC
Remarks: 5-fig cut numbers 78142 23... 65.81 very
weak Contr: (Westli)
5762.0 M08a Mode: CW Date/time: Wed 20-8-2008, 1300 UTC
Remarks: 5-fig cut numbers 76873 21212 44821 Contr:
(Westli)
5762.0 V02a Mode: AM Date/time: Sat 2-8-2008, 0200 UTC
Remarks: SSYL 5-fig atencion: 26122 67171 very
weak. IDs doubtful Contr: (Westli)
5762.0 V02a Mode: AM Date/time: Sat 16-8-2008, 0200 UTC
Remarks: SSYL 5-fig atencion: 68043 98061 43802
weak Contr: (Westli)
5762.0 V02a Mode: AM Date/time: Sat 23-8-2008, 0200 UTC
Remarks: SSYL 5-fig atencion: 26841 67373 22581
Contr: (Westli)
5763.0 V02a Mode: AM Date/time: Sat 30-8-2008, 0200 UTC
Remarks: SSYL 5-fig atencion: caught late - no IDs
hrd Contr: (Westli)
5765 M51 Mode: CW Date/time: 7-8-2008, 0330 UTC
Remarks: French Morse training network Contr: (PD1)
5782 S06 Mode: AM Date/time: 18-8-2008, 1905 UTC
Remarks: 463 00000 Contr: (RiN)
5788 M12 Mode: CW Date/time: 25-8-2008, 1840 UTC
Remarks: 463 1 5801 100 Contr: (FN)
5788 M12 Mode: CW Date/time: 26-8-2008, 1640 UTC
Remarks: 463 1 1834 50 Contr: (FN)
5798.5 M51 Mode: CW Date/time: 4-8-2008, 0554 UTC
Remarks: in progress Contr: (BCI)
5800 V02a Mode: CW Date/time: 4-8-2008, 0631 UTC
Remarks: 5767 -> 5835 Contr: (Vambo)
5800.0 M08a Mode: MCW Date/time: Sat 2-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 57153 27173 15823 Contr:
(Westli)
5800.0 M08a Mode: CW Date/time: Mon 4-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 02041 38931 12691 the
one that sounds like a steamship Contr: (Westli)
5800.0 M08a Mode: CW Date/time: Sat 9-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 99411 48551 21231 Contr:

(Westli)

5800.0 M08a Mode: MCW Date/time: Mon 11-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 07883 67752 96353
QRM/N rose to cover it all up. Contr: (Westli)

5800.0 M08a Mode: CW Date/time: Tue 12-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 20181 23071 21622
sounds like a steamship Contr: (Westli)

5800.0 M08a Mode: MCW Date/time: Thu 14-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 96271 38971 91881 This
one does not sound like a steamship Contr: (Westli)

5800.0 M08a Mode: MCW Date/time: Sat 16-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 58623 21453 15031 Contr:
(Westli)

5800.0 M08a Mode: CW Date/time: Mon 18-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 55451 58742 76071 Contr:
(Westli)

5800.0 M08a Mode: MCW Date/time: Tue 19-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 54061 19251 88921 Contr:
(Westli)

5800.0 M08a Mode: MCW Date/time: Thu 21-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 42351 21742 00481 Contr:
(Westli)

5800.0 M08a Mode: MCW Date/time: Sat 23-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 64081 10161 76462 Contr:
(Westli)

5800.0 M08a Mode: MCW Date/time: Mon 25-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 17863 26522 37622 Contr:
(Westli)

5800.0 M08a Mode: AM Date/time: Mon 25-8-2008, 0630 UTC
Remarks: MCW 1000HZ AT 14WPM FIVE LETTER
GRPS WRUUU DRRNU DGANN ... Contr: (SXJ97B)

5800.0 M08a Mode: MCW Date/time: Tue 26-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 86991 04871 31401 Contr:
(Westli)

5800.0 M08a Mode: MCW Date/time: Thu 28-8-2008, 0600 UTC
Remarks: 5-fig cut numbers 51872 11511 18811 Contr:
(Westli)

5800.0 V02a Mode: AM Date/time: Mon 4-8-2008, 0300 UTC
Remarks: SSYL 5-fig atencion: 37311 53381 81232
weak, poor readability Contr: (Westli)

5820 E10 Mode: AM Date/time: 28-8-2008, 2127 UTC
Remarks: YHF2 Contr: (KK2)

5820 E10 Mode: AM Date/time: 29-8-2008, 2133 UTC
Remarks: YHF2 //4560 Khz Contr: (KK2)

5820 E10 Mode: AM Date/time: 31-8-2008, 1735 UTC
Remarks: in progress Contr: (AB)

5828.5 M51 Mode: CW Date/time: 11-8-2008, 1701 UTC
Remarks: = NR 09 A 11 19:01:46 1986 = WGGSC

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                EABAA ...  Contr: (MPJ)
5828.5    M51   Mode: CW  Date/time:  11-8-2008, 1701 UTC
                Remarks: = NR 09 A 11 19:01:46 1986 = WGGSC
                EABAA ...  Contr: (MPJ)
5838.5    M51   Mode: CW  Date/time:  3-8-2008, 2019 UTC
                Remarks: NR 83 J 31 22:19:13 1986 = GRMKL PEMTA
                ... KELTU EZWUB =  Contr: (MPJ)
5883      V02a  Mode: AM  Date/time:  18-8-2008, 0732 UTC
                Remarks: in progress  Contr: (TI)
5883      V02a  Mode: AM  Date/time:  22-8-2008, 0715 UTC
                Remarks: w/ 5F msgs  Contr: (TS)
5883.0    M08a  Mode: MCW  Date/time: Wed 27-8-2008, 0700 UTC
                Remarks: 5-fig cut numbers  04271 04022 80651   called
                 for about a minute then stopped xm  Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Fri 1-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  45583 00112 18772
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Sat 2-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  81561 33802 64633
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Sun 3-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  81562 00782 58381
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Tue 5-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  71101 11853 03673
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Fri 8-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  46161 81252 52712
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Sat 9-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  46461 38051 26132
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Sun 10-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  87441 30132 06582
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Mon 11-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  48971 81732 71001
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Tue 12-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  07452 75032 42062
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Thu 14-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  72151 61341 08232
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Fri 15-8-2008, 0700 UTC
                Remarks: SSYL 5-fig atencion:  93771 34333 52353
                Contr: (Westli)
5883.0    V02a  Mode: AM  Date/time: Sat 16-8-2008, 0700 UTC
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		Remarks: SSYL 5-fig atencion: 93772 10572 17772 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Sun 17-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 93773 77731 14482 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Mon 18-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 38051 46141 17232 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Tue 19-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 14001 81782 36403 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Thu 21-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 08681 83822 17541 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Fri 22-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 08682 84381 73271 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Sat 23-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 08683 20481 13153 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Sun 24-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 04182 63411 62381 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Mon 25-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 32741 58073 33323 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Tue 26-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 44381 71142 25811 Contr: (Westli)
5883.0	V02a	Mode: AM Date/time: Thu 28-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 71061 28322 54711 Contr: (Westli)
5885.0	M08a	Mode: AM Date/time: Mon 25-8-2008, 0700 UTC Remarks: YL VOICE AM STARTS UNO UNO UNO UNO ATTENCION NUMBERS IN PROGRESS NOW.. Contr: (SXJ97B)
5885.0	V02a	Mode: AM Date/time: Mon 25-8-2008, 0658 UTC Remarks: YL VOICE AM STARTS UNO UNO UNO UNO ATTENCION NUMBERS IN PROGRESS NOW.. Contr: (SXJ97B)
5887.0	V02a	Mode: USB Date/time: Tue 26-8-2008, 0700 UTC Remarks: YL, 5 number sets, pause every 10th set; call 44381, 61142, 25811 Contr: (MT2)
5898.0	M08a	Mode: MCW Date/time: Sat 2-8-2008, 0500 UTC Remarks: 5-fig cut numbers 57153 27173 15823 Contr: (Westli)
5898.0	M08a	Mode: MCW Date/time: Mon 4-8-2008, 0500 UTC Remarks: 5-fig cut numbers 02041 38931 12691 Contr:

(Westli)
5898.0 M08a Mode: MCW Date/time: Sat 9-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 99411 48551 21231 Contr:
(Westli)
5898.0 M08a Mode: MCW Date/time: Mon 11-8-2008, 0500 UTC
Remarks: 5-fig cut numbers appeared late, no IDs
noted Contr: (Westli)
5898.0 M08a Mode: MCW Date/time: Sat 16-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 21453 15031 58623 Contr:
(Westli)
5898.0 M08a Mode: MCW Date/time: Mon 18-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 55451 58742 76071 came
up late. Contr: (Westli)
5898.0 M08a Mode: MCW Date/time: Tue 19-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 54061 19251 88921 Contr:
(Westli)
5898.0 M08a Mode: MCW Date/time: Thu 21-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 56614 31351 28088 Contr:
(Westli)
5898.0 M08a Mode: MCW Date/time: Mon 25-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 17863 26522 37622 Contr:
(Westli)
5898.0 M08a Mode: MCW Date/time: Tue 26-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 12345 6782 sent partial
call and stopped, then about a minu Contr: (Westli)
5898.0 M08a Mode: CW Date/time: Thu 28-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 11501 faded in late, one
ID heard Contr: (Westli)
5898.0 M08a Mode: MCW Date/time: Sat 30-8-2008, 0500 UTC
Remarks: 5-fig cut numbers 06231 came up late with
1 ID and msg Contr: (Westli)
5898.0 V02a Mode: AM Date/time: Fri 1-8-2008, 0800 UTC
Remarks: SSYL 5-fig atencion: 45583 00112 18772
Contr: (Westli)
5898.0 V02a Mode: AM Date/time: Sat 2-8-2008, 0800 UTC
Remarks: SSYL 5-fig atencion: 81561 33802 64633
Contr: (Westli)
5898.0 V02a Mode: AM Date/time: Sun 3-8-2008, 0800 UTC
Remarks: SSYL 5-fig atencion: 81562 00782 58381
Contr: (Westli)
5898.0 V02a Mode: AM Date/time: Tue 5-8-2008, 0800 UTC
Remarks: V2a SSYL 5-fig atencion: 71101 11853
03673 Contr: (Westli)
5898.0 V02a Mode: AM Date/time: Fri 8-8-2008, 0800 UTC
Remarks: SSYL 5-fig atencion: 46161 81252 52712
Contr: (Westli)
5898.0 V02a Mode: AM Date/time: Sun 10-8-2008, 0800 UTC
Remarks: SSYL 5-fig atencion: 62312 26802 67111

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                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Mon 11-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  48971 81732 71001
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Tue 12-8-2008, 0500 UTC
                Remarks: SSYL 5-fig atencion:  20181 23071 21622
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Tue 12-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  07452 75032 42062
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Thu 14-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  72151 61341 08232
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Fri 15-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  93771 34333 52353
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Sat 16-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  93772 10572 17772
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Sun 17-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  93773 77731 14482
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Mon 18-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  38051 46141 17232
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Tue 19-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  14001 81782 36403
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Thu 21-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  08681 83822 17541
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Fri 22-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  08682 84381 73271
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Sat 23-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  08683 20481 13153
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Sun 24-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  37412 64263 61433
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Mon 25-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  32741 58073 33323
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Tue 26-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  44381 71142 25811
                Contr: (Westli)
5898.0    V02a  Mode: AM  Date/time: Thu 28-8-2008, 0800 UTC
                Remarks: SSYL 5-fig atencion:  71061 28322 54711
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Contr: (Westli)

5898.0 V02a Mode: AM Date/time: Fri 29-8-2008, 0800 UTC
Remarks: SSYL 5-fig atencion: 14602 65011 26671
Contr: (Westli)

5900.0 M08a Mode: AM Date/time: Mon 25-8-2008, 0600 UTC
Remarks: Same DB on spectrum analyzer as RHC on
6000 Khz Contr: (SXJ97B)

5947 G06 Mode: AM Date/time: Fri 29-8-2008, 1930 UTC
Remarks: 218-144/24=14280 Contr: (HFD)

6215 V24 Mode: AM Date/time: 18-8-2008, 1405 UTC
Remarks: in progress Contr: (TI)

6524 S11a Mode: USB Date/time: 27-8-2008, 0900 UTC
Remarks: 214/00 Contr: (FN)

6575 E10a Mode: AM Date/time: 3-8-2008, 2133 UTC
Remarks: HNCS Contr: (SW2)

6666 S06 Mode: AM Date/time: 26-8-2008, 1500 UTC
Remarks: 537 876 9 Contr: (FN)

6755 S06 Mode: AM Date/time: 23-7-2008, 0822 UTC
Remarks: YL numbers repeated Contr: (ML4)

6755 S06 Mode: AM Date/time: 27-8-2008, 0820 UTC
Remarks: 471 206 5 Contr: (FN)

6768.0 V02a Mode: AM Date/time: Mon 4-8-2008, 0400 UTC
Remarks: SSYL 5-fig atencion: 84281 becomes
audible just before 1st msg Contr: (Westli)

6768.0 V02a Mode: AM Date/time: Sat 9-8-2008, 0100 UTC
Remarks: SSYL 5-fig atencion: 66162 26131 46413
Contr: (Westli)

6768.0 V02a Mode: AM Date/time: Sat 23-8-2008, 0100 UTC
Remarks: SSYL 5-fig atencion: 26841 67373 22581
Contr: (Westli)

6768.0 V02a Mode: AM Date/time: Mon 25-8-2008, 0400 UTC
Remarks: SSYL 5-fig atencion: 50171 2.133 34761
weak Contr: (Westli)

6768.0 V02a Mode: AM Date/time: Sat 30-8-2008, 0100 UTC
Remarks: SSYL 5-fig atencion: 61881 15141 58712
Contr: (Westli)

6770 S06 Mode: AM Date/time: 12-8-2008, 1800 UTC
Remarks: 548 00000 Contr: (RiN)

6786 V02a Mode: AM Date/time: 22-8-2008, 0715 UTC
Remarks: w/ 5F msgs Contr: (TS)

6786.0 V02a Mode: AM Date/time: Sun 3-8-2008, 0700 UTC
Remarks: SSYL 5-fig atencion: 72261 57701 22182
Contr: (Westli)

6786.0 V02a Mode: AM Date/time: Sun 10-8-2008, 0700 UTC
Remarks: SSYL 5-fig atencion: 62312 26802 67111
Contr: (Westli)

6786.0 V02a Mode: AM Date/time: Sun 17-8-2008, 0700 UTC
Remarks: SSYL 5-fig weak Contr: (Westli)

6786.0 V02a Mode: AM Date/time: Sun 24-8-2008, 0700 UTC
Remarks: SSYL 5-fig atencion: 18872 51162 77322
Contr: (Westli)
6797 G11 Mode: USB Date/time: 27-8-2008, 0730 UTC
Remarks: 508/00 Contr: (FN)
6800 X06 Mode: AM Date/time: 27-8-2008, 1955 UTC
Remarks: Mazielka. Sequence: 612534 Contr: (JS3)
6802 M12 Mode: CW Date/time: 25-8-2008, 1820 UTC
Remarks: 463 1 5801 100 Contr: (FN)
6802 M12 Mode: CW Date/time: 26-8-2008, 1620 UTC
Remarks: 463 1 1834 50 Contr: (FN)
6815 S06 Mode: AM Date/time: 27-8-2008, 1210 UTC
Remarks: 482 260 5 Contr: (FN)
6825 M51 Mode: CW Date/time: 20-7-2008, 0840 UTC
Remarks: CSTEI Contr: (ML4)
6826 SK01 Mode: RDFT Date/time: 17-8-2008, 0600 UTC
Remarks: Bursts Contr:
6840 E10 Mode: AM Date/time: 28-8-2008, 1905 UTC
Remarks: GROUP14 NIGBL Contr: (sgdx2000)
6840 E10 Mode: AM Date/time: 28-8-2008, 2000 UTC
Remarks: EZI2 Contr: (sgdx2000)
6840 E10 Mode: AM Date/time: 29-8-2008, 1500 UTC
Remarks: EZI2 Contr: (sgdx2000)
6855.0 V02a Mode: AM Date/time: Mon 11-8-2008, 0300 UTC
Remarks: SSYL 5-fig too weak Contr: (Westli)
6855.0 V02a Mode: AM Date/time: Mon 25-8-2008, 0300 UTC
Remarks: SSYL 5-fig atencion: 78263 79621 57012
Contr: (Westli)
6857 M14 Mode: CW Date/time: 26-8-2008, 1825 UTC
Remarks: 07075 - - 576 576 21 21 00000 Contr: (RiN)
6867.0 M08a Mode: CW Date/time: Mon 4-8-2008, 1400 UTC
Remarks: 5-fig cut numbers 31832 86341 13723 very
weak Contr: (Westli)
6867.0 M08a Mode: MCW Date/time: Mon 18-8-2008, 1400 UTC
Remarks: 5-fig cut numbers 37522 92441 25612 Contr:
(Westli)
6875 E06 Mode: AM Date/time: Wed 20-8-2008, 2015 UTC
Remarks: 572:0 Contr: (HFD)
6876 XPA Mode: AM Date/time: Sun 3-8-2008, 0820 UTC
Remarks: msg Contr: (HFD)
6904 M12 Mode: CW Date/time: 11-8-2008, 1944 UTC
Remarks: i.p., MON 1900/20/40 sked 9176/7931/6904
Contr: (FN)
6904 M12 Mode: CW Date/time: 24-8-2008, 1940 UTC
Remarks: 257 1 4171 64 Contr: (FN)
6904 M12 Mode: CW Date/time: 25-8-2008, 1940 UTC
Remarks: 257 1 4545 63 Contr: (FN)
6922.6 M51 Mode: CW Date/time: 27-8-2008, 0007 UTC

		Remarks: French Mil , CW training Contr: (Jon-FL)
6941	E07	Mode: AM Date/time: Tue 5-8-2008, 0700 UTC
		Remarks: 902:0 Contr: (HFD)
6958	X06	Mode: AM Date/time: 11-8-2008, 1807 UTC
		Remarks: Mazielka. Sequence: 154632 Contr: (RiN)
6958	X06	Mode: AM Date/time: 11-8-2008, 1904 UTC
		Remarks: Mazielka. Sequence: 154632 Contr: (RiN)
6959	X06	Mode: AM Date/time: 11-8-2008, 1908 UTC
		Remarks: Mazielka. Sequence: 154632 Contr: (JS3)
7038.7	MX	Mode: CW Date/time: 2-8-2008, 0458 UTC
		Remarks: Cluster beacon "D" Contr: (AB)
7038.7	MX	Mode: CW Date/time: 21-8-2008, 0228 UTC
		Remarks: Beacon "D" Contr: (Jon-FL)
7038.7	MX	Mode: CW Date/time: 26-8-2008, 2011 UTC
		Remarks: Cluster beacon "D" Contr: (AB)
7038.7	MX	Mode: CW Date/time: 30-8-2008, 1945 UTC
		Remarks: Cluster beacon "D" Contr: (AB)
7038.9	MX	Mode: CW Date/time: 7-8-2008, 2042 UTC
		Remarks: Cluster beacon "S" Contr:
7038.9	MX	Mode: CW Date/time: 30-8-2008, 1945 UTC
		Remarks: Cluster beacon "S" Contr: (AB)
7038.9	MX	Mode: CW Date/time: 31-8-2008, 1010 UTC
		Remarks: Cluster beacon "S" Contr: (AB)
7039	MX	Mode: CW Date/time: 2-8-2008, 0458 UTC
		Remarks: Cluster beacon "C" Contr: (AB)
7039	MX	Mode: CW Date/time: 26-8-2008, 2011 UTC
		Remarks: Cluster beacon "C" Contr: (AB)
7039.0	MX	Mode: CW Date/time: Fri 8-8-2008, 0920 UTC
		Remarks: -** [D/ı] Contr: (DXman)
7041	M89	Mode: CW Date/time: 10-8-2008, 1400 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7057.1	M89	Mode: CW Date/time: 6-8-2008, 2100 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7058.5	M89	Mode: CW Date/time: 27-8-2008, 1735 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7059.0	M89	Mode: CW Date/time: 12-8-2008, 1951 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7059.1	M89	Mode: CW Date/time: 12-8-2008, 2011 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7059.2	M89	Mode: CW Date/time: 12-8-2008, 2053 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7063.1	M89	Mode: CW Date/time: 18-8-2008, 1812 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7063.3	M89	Mode: CW Date/time: 21-8-2008, 1640 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7063.9	M89	Mode: CW Date/time: 28-8-2008, 1730 UTC
		Remarks: V CP17 CP17 CP17 de L9CC L9CC Contr: (AnEur)
7064.3	M89	Mode: CW Date/time: 10-8-2008, 1738 UTC

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                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7064.3    M89   Mode: CW  Date/time:  12-8-2008, 1857 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7064.8    M89   Mode: CW  Date/time:  14-8-2008, 2018 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7065.3    M89   Mode: CW  Date/time:  12-8-2008, 1720 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7065.4    M89   Mode: CW  Date/time:  7-8-2008, 2125 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7066.3    M89   Mode: CW  Date/time:  25-8-2008, 2133 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7066.5    M89   Mode: CW  Date/time:  20-8-2008, 2100 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7067      M89   Mode: CW  Date/time:  29-8-2008, 1300 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7068.6    M89   Mode: CW  Date/time:  3-8-2008,  UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7069.6    M89   Mode: CW  Date/time:  29-8-2008, 2113 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7070      M89   Mode: CW  Date/time:  5-8-2008, 2300 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7072.9    M89   Mode: CW  Date/time:  22-8-2008, 1527 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7073      M89   Mode: CW  Date/time:  7-8-2008, 1400 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7075.5    M89   Mode: CW  Date/time:  8-8-2008,  UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7077      M89   Mode: CW  Date/time:  31-8-2008, 2300 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7078      M89   Mode: CW  Date/time:  21-8-2008, 1800 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7079      M89   Mode: CW  Date/time:  23-8-2008, 1400 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7082      M89   Mode: CW  Date/time:  21-8-2008, 1800 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7088      M89   Mode: CW  Date/time:  4-8-2008, 2300 UTC
                Remarks: V CP17 CP17 CP17 de L9CC L9CC  Contr: (AnEur)
7336.5    M51   Mode: CW  Date/time:  14-8-2008, 0747 UTC
                Remarks: NR 04 A 14 09:47:26 1986 BT RBRAM POCCL
                 EYIXR  Contr: (BCI)
7336.6    M51   Mode: CW  Date/time:  18-8-2008, 0457 UTC
                Remarks: French Mil CW training  Contr: (Jon-FL)
7342.5    M51   Mode: CW  Date/time:  7-8-2008, 0714 UTC
                Remarks: NR 57 A 07 09:20:0V 1986 BT VGTRF UBOEX
                 PCZZP ....  Contr: (BCI)
7373      ???   Mode: CW  Date/time:  21-8-2008, 0313 UTC
                Remarks: Unid 5FGs, Cut T, about 13 WPM, ended with
                R at 0313 UTC  Contr: (Jon-FL)
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7422.5	M51	Mode: CW Date/time: 7-8-2008, 0648 UTC Remarks: NR 58 A 07 09:26:19 1986 BT OIGRX WCJRI EMPKM ... Contr: (BCI)
7439	S11a	Mode: USB Date/time: 11-8-2008, 0900 UTC Remarks: 976/00 Contr: (FN)
7439	S11b	Mode: USB Date/time: 25-8-2008, 0900 UTC Remarks: 970/36 77777 77777 39306 Contr: (FN)
7519.0	M08a	Mode: CW Date/time: Fri 15-8-2008, 2200 UTC Remarks: 5-fig cut numbers 55473 18313 13881 fast sending Contr: (Westli)
7519.0	M08a	Mode: CW Date/time: Mon 18-8-2008, 2200 UTC Remarks: 5-fig cut numbers picked up late, no IDs hrd Contr: (Westli)
7520.0	M08a	Mode: CW Date/time: Mon 4-8-2008, 1300 UTC Remarks: 5-fig cut numbers 57023 37752 57241 Contr: (Westli)
7526	M08a	Mode: CW Date/time: 19-8-2008, 2232 UTC Remarks: Very strong signal (s9+40) Contr: (Jon-FL)
7526.0	M08a	Mode: CW Date/time: Tue 19-8-2008, 2200 UTC Remarks: 5-fig cut numbers Very weak Contr: (Westli)
7526.0	M08a	Mode: CW Date/time: Tue 26-8-2008, 2200 UTC Remarks: 5-fig cut numbers 20681 25031 5474. very weak. IDs doubtful Contr: (Westli)
7545	S06	Mode: AM Date/time: 27-8-2008, 1230 UTC Remarks: 967 203 5 Contr: (FN)
7568	M89	Mode: CW Date/time: 7-8-2008, 2000 UTC Remarks: V QPZM QPZM QPZM de WOXN WOXN Contr: (MPJ)
7568	M89	Mode: CW Date/time: 11-8-2008, 1828 UTC Remarks: v QPZM QPZM QPZM de WOXN WOXN WOXN Contr: (FN)
7637	E07	Mode: AM Date/time: Thu 28-8-2008, 2050 UTC Remarks: 716:1-830/94=98638 Contr: (HFD)
7649	XPA	Mode: AM Date/time: Sun 3-8-2008, 0840 UTC Remarks: msg Contr: (HFD)
7654	XPA	Mode: AM Date/time: Fri 1-8-2008, 2040 UTC Remarks: msg Contr: (HFD)
7663	M03	Mode: CW Date/time: Wed 20-8-2008, 1445 UTC Remarks: 279/33=14905 04597 Contr: (HFD)
7663	M03	Mode: CW Date/time: 27-8-2008, 1445 UTC Remarks: 279/33 14905 Contr: (FN)
7744	S06	Mode: AM Date/time: 26-8-2008, 1510 UTC Remarks: 537 876 9 Contr: (FN)
7751	M01a	Mode: CW Date/time: 26-8-2008, 1815 UTC Remarks: 217 217 217 28198 28198 217 217 217 28198 28198 (R3) No specific ending. Contr: (RiN)
7765	S06	Mode: AM Date/time: 27-8-2008, 1200 UTC Remarks: 481 260 5 Contr: (FN)

7765	S07	Mode: AM Date/time: 27-8-2008, 1200 UTC Remarks: repeating "Chetetirye-Vozim-Vozim" =488, followed by 5NG¥s ends with 2x "N Contr: (KK2)
7772	M03	Mode: CW Date/time: 22-8-2008, 1545 UTC Remarks: 405/30 92374 Contr: (FN)
7817.5	M51	Mode: CW Date/time: 21-7-2008, 2141 UTC Remarks: NR I6 J 23 23:54:26 1990 BT MVFIY ROBGL HCQRW ... Contr: (BCI)
7833	M89	Mode: CW Date/time: 13-8-2008, 1842 UTC Remarks: v QPZM QPZM QPZM de WOXN WOXN WOXN Contr: (FN)
7850	E06	Mode: AM Date/time: Sun 3-8-2008, 1930 UTC Remarks: 690:0 Contr: (HFD)
7857	M12	Mode: CW Date/time: Tue 26-8-2008, 2100 UTC Remarks: 857:0 Contr: (HFD)
7887.0	V02a	Mode: AM Date/time: Sat 9-8-2008, 2030 UTC Remarks: Contr: (Apop)
7887.0	V02a	Mode: AM Date/time: Sat 23-8-2008, 2000 UTC Remarks: SSYL 5-fig atencion: 04201 Very weak. First copy here for this sked Contr: (Westli)
7920	E06	Mode: AM Date/time: Tue 26-8-2008, 2100 UTC Remarks: 482:0, QRM Contr: (HFD)
7931	M12	Mode: CW Date/time: 24-8-2008, 1920 UTC Remarks: 257 1 4171 64 Contr: (FN)
7931	M12	Mode: CW Date/time: 25-8-2008, 1920 UTC Remarks: 257 1 4545 63 Contr: (FN)
7985	E06	Mode: AM Date/time: Thu 28-8-2008, 2100 UTC Remarks: 489:0 Contr: (HFD)
8005.5	M42	Mode: Crowd-36 Date/time: 5-8-2008, 0823 UTC Remarks: DOSC, traffic Contr: (BCI)
8009.0	M08a	Mode: CW Date/time: Mon 18-8-2008, 2200 UTC Remarks: 5-fig cut numbers very weak Contr: (Westli)
8009.0	M08a	Mode: CW Date/time: Wed 27-8-2008, 2300 UTC Remarks: 5-fig cut numbers 35552 36171 84042 Contr: (Westli)
8011	M51	Mode: CW Date/time: 17-8-2008, 1617 UTC Remarks: NR 70 A 14 18:48:32 1986 BT NFESV XRLHC Contr: (BCI)
8011.05	M51	Mode: CW Date/time: 3-8-2008, 1628 UTC Remarks: NR 46 J 31 18:08:20 1986 = VUXKN WYKUB ... CYAUO GPGWU = Contr: (MPJ)
8032	M51	Mode: CW Date/time: 20-8-2008, 1612 UTC Remarks: 5-letter groups Contr: (sgdx2000)
8041	E07	Mode: AM Date/time: Tue 5-8-2008, 0720 UTC Remarks: 902:0 Contr: (HFD)
8047	M12	Mode: CW Date/time: 25-8-2008, 1800 UTC Remarks: 463 1 5801 100 Contr: (FN)
8047	M12	Mode: CW Date/time: 26-8-2008, 1600 UTC

		Remarks: 463 1 1834 50 Contr: (FN)
8072	M12	Mode: CW Date/time: 12-8-2008, 0940 UTC Remarks: 572 1 742 143 53132 43991 70640 etc Contr: (RiN)
8095.5	M51	Mode: CW Date/time: 5-8-2008, 0753 UTC Remarks: NR 57 A 05 09:51:31 1986 BT ZDEHB MXHGS MKUGI ... Contr: (BCI)
8096.0	M08a	Mode: CW Date/time: Fri 1-8-2008, 1300 UTC Remarks: 5-fig cut numbers too weak to copy Contr: (Westli)
8096.0	M08a	Mode: CW Date/time: Fri 1-8-2008, 1400 UTC Remarks: 5-fig cut numbers too weak to copy Contr: (Westli)
8096.0	M08a	Mode: CW Date/time: Wed 6-8-2008, 1400 UTC Remarks: 5-fig cut numbers 84141 04571 23443 Contr: (Westli)
8096.0	M08a	Mode: CW Date/time: Fri 15-8-2008, 1300 UTC Remarks: 5-fig cut numbers 27530 76863 75411 weak, IDs questionable Contr: (Westli)
8096.0	M08a	Mode: CW Date/time: Wed 20-8-2008, 1400 UTC Remarks: 5-fig cut numbers 61742 17440 14119 Very weak. IDs doubtful Contr: (Westli)
8096.0	M08a	Mode: CW Date/time: Fri 29-8-2008, 1300 UTC Remarks: 5-fig cut numbers weak - faded in after msg started Contr: (Westli)
8097.0	M08a	Mode: CW Date/time: Mon 4-8-2008, 1300 UTC Remarks: 5-fig cut numbers 31832 86341 13723 Contr: (Westli)
8097.0	M08a	Mode: CW Date/time: Mon 18-8-2008, 1300 UTC Remarks: 5-fig cut numbers 73081 weak Contr: (Westli)
8097.0	M08a	Mode: MCW Date/time: Fri 22-8-2008, 1819 UTC Remarks: Caught in progress Contr: (CS)
8105	X06	Mode: AM Date/time: 11-8-2008, 1905 UTC Remarks: Mazielka. Sequence: 314265 Contr: (RiN)
8105	X06	Mode: AM Date/time: 11-8-2008, 1905 UTC Remarks: Mazielka. Sequence: 314265 Contr: (RiN)
8106	M51	Mode: CW Date/time: 22-8-2008, 1636 UTC Remarks: NR 15 IA 19 18:39:57 1986 BT RGZKE Contr: (BCI)
8115	S06	Mode: AM Date/time: Mon 25-8-2008, 2115 UTC Remarks: 723:0 Contr: (HFD)
8116	M12	Mode: CW Date/time: 25-8-2008, 1640 UTC Remarks: 124 4281 74 Contr: (FN)
8131	X06	Mode: AM Date/time: 14-8-2008, 0624 UTC Remarks: Mazielka. Sequence: 164532 Contr: (RiN)
8135.0	M08a	Mode: CW Date/time: Fri 8-8-2008, 2300 UTC Remarks: 5-fig cut numbers 62621 52521 76961 weak and fast Contr: (Westli)
8135.0	M08a	Mode: CW Date/time: Fri 15-8-2008, 2300 UTC Remarks: 5-fig cut numbers 55473 18313 13881 Contr:

		(Westli)
8135.0	M08a	Mode: CW Date/time: Tue 19-8-2008, 2300 UTC Remarks: 5-fig cut numbers 13663 58481 12002 Contr: (Westli)
8135.0	M08a	Mode: CW Date/time: Thu 21-8-2008, 2300 UTC Remarks: 5-fig cut numbers 32671 64433 40421 fast sending Contr: (Westli)
8135.0	M08a	Mode: CW Date/time: Thu 28-8-2008, 2300 UTC Remarks: 5-fig cut numbers 77131 41352 22842 Contr: (Westli)
8140	G06	Mode: AM Date/time: Mon 4-8-2008, 2000 UTC Remarks: 308:0 Contr: (HFD)
8155	E06	Mode: AM Date/time: Wed 20-8-2008, 1915 UTC Remarks: 572:0 Contr: (HFD)
8168.4	M51	Mode: CW Date/time: 21-7-2008, 1654 UTC Remarks: NR 08 J 23 18:54:48 1990 BT GNXUP TWQIS ... Contr: (BCI)
8173.5	M42	Mode: Crowd36 Date/time: 20-7-2008, 1650 UTC Remarks: DOSC traffic Contr: (BCI)
8181	M51	Mode: CW Date/time: 29-7-2008, 1650 UTC Remarks: msgs Contr: (BCI)
8220	S06	Mode: AM Date/time: 27-8-2008, 1240 UTC Remarks: 967 203 5 Contr: (FN)
8220	S07	Mode: AM Date/time: 27-8-2008, 1240 UTC Remarks: repeating "Dyevyet-Shest-Seyem"=967, 2x "Dva-Noll-Tri", flwd by 5Ng¥s ends Contr: (KK2)
8494.7	MX	Mode: CW Date/time: 3-8-2008, 1555 UTC Remarks: Cluster beacon "D" Contr: (SW2)
8494.9	MX	Mode: CW Date/time: 30-8-2008, 1945 UTC Remarks: Cluster beacon "S" Contr: (AB)
8495	MX	Mode: CW Date/time: 3-8-2008, 1555 UTC Remarks: Cluster beacon "C" Contr: (SW2)
8495	MX	Mode: CW Date/time: 4-8-2008, 2038 UTC Remarks: Cluster beacon "C" Contr: (AB)
8495	MX	Mode: CW Date/time: 10-8-2008, 0527 UTC Remarks: Cluster beacon "C" Contr: (AB)
8495	MX	Mode: CW Date/time: 30-8-2008, 1945 UTC Remarks: Cluster beacon "C" Contr: (AB)
8759	G11	Mode: USB Date/time: 8-8-2008, 1100 UTC Remarks: 508/00 (f¸nnef-zero-acht-strich-zero-zero" Ends with "Ende" Contr: (KK2)
8759	G11	Mode: USB Date/time: 15-8-2008, 1100 UTC Remarks: 508/00 German voice Contr: (KK2)
8800	E11	Mode: USB Date/time: 25-8-2008, 0845 UTC Remarks: 252/00 Contr: (FN)
8800	E11	Mode: USB Date/time: 27-8-2008, 0845 UTC Remarks: 252/00 Contr: (FN)
9040.0	V02a	Mode: AM Date/time: Sat 2-8-2008, 0900 UTC

		Remarks: SSYL 5-fig atencion: 20231 16273 24723 readability: ugly Contr: (Westli)
9040.0	V02a	Mode: AM Date/time: Wed 6-8-2008, 0900 UTC Remarks: SSYL 5-fig atencion: 71102 03873 51313 Contr: (Westli)
9040.0	V02a	Mode: AM Date/time: Wed 13-8-2008, 0900 UTC Remarks: SSYL 5-fig too weak Contr: (Westli)
9040.0	V02a	Mode: AM Date/time: Wed 20-8-2008, 0900 UTC Remarks: SSYL 5-fig atencion: 48651 70583 05211 Contr: (Westli)
9048.5	M51	Mode: CW Date/time: 20-8-2008, 1445 UTC Remarks: 5-letter groups Contr: (sgdx2000)
9059	M42	Mode: Baudot 200bd/500Hz Date/time: 30-8-2008, 2020 UTC Remarks: Russian Intel. Auto broadcasting null msg Contr: (LDO)
9060	E06	Mode: AM Date/time: Wed 13-8-2008, 1500 UTC Remarks: 857-469/103=66502 Contr: (HFD)
9060	E11	Mode: USB Date/time: 25-8-2008, 0815 UTC Remarks: 552/00 Contr: (FN)
9060	E11b	Mode: USB Date/time: 22-8-2008, 0815 UTC Remarks: 555/34 77777 77777 01364.. Contr: (FN)
9061	X06	Mode: AM Date/time: 27-8-2008, 0759 UTC Remarks: Mazielka. Sequence: 412356 Contr: (RiN)
9063.0	M08a	Mode: MCW Date/time: Fri 1-8-2008, 0800 UTC Remarks: 5-fig cut numbers 61232 68621 08621 Contr: (Westli)
9063.0	M08a	Mode: MCW Date/time: Mon 4-8-2008, 0900 UTC Remarks: 5-fig cut numbers 16653 15402 67823 Contr: (Westli)
9063.0	M08a	Mode: MCW Date/time: Wed 6-8-2008, 0800 UTC Remarks: 5-fig cut numbers 06262 54601 71851 Contr: (Westli)
9063.0	M08a	Mode: MCW Date/time: Fri 8-8-2008, 0800 UTC Remarks: SSYL 5-fig atencion: 46161 81252 52712 Contr: (Westli)
9063.0	M08a	Mode: MCW Date/time: Wed 13-8-2008, 0800 UTC Remarks: 5-fig cut numbers 86723 54591 17512 Contr: (Westli)
9063.0	M08a	Mode: MCW Date/time: Fri 15-8-2008, 0800 UTC Remarks: 5-fig cut numbers 27011 60603 72403 Contr: (Westli)
9063.0	M08a	Mode: MCW Date/time: Wed 27-8-2008, 0800 UTC Remarks: 5-fig cut numbers 81812 26241 27482 Contr: (Westli)
9063.0	M08a	Mode: MCW Date/time: Fri 29-8-2008, 0800 UTC Remarks: 5-fig cut numbers 47231 48231 76061 Contr: (Westli)
9063.0	V02a	Mode: AM Date/time: Tue 5-8-2008, 0700 UTC

		Remarks: V2a SSYL 5-fig atencion: 51702 38033 753.. Contr: (Westli)
9063.0	V02a	Mode: AM Date/time: Tue 19-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 50241 40382 .2073 weak with QSB Contr: (Westli)
9063.0	V02a	Mode: AM Date/time: Tue 26-8-2008, 0700 UTC Remarks: SSYL 5-fig too weak to copy Contr: (Westli)
9106	X06	Mode: AM Date/time: 19-8-2008, 1443 UTC Remarks: Mazielka. Sequence: 463125 Contr: (PUK)
9111	M42	Mode: USB/MFSK-20/10bd Date/time: 29-8-2008, 1222 UTC Remarks: Russian Intel. Broadcasting a single 5FG to recipient 151 Contr: (LDO)
9112.0	M08a	Mode: MCW Date/time: Fri 1-8-2008, 1000 UTC Remarks: 5-fig cut numbers 12191 23361 47841 Contr: (Westli)
9112.0	M08a	Mode: CW Date/time: Sun 3-8-2008, 1000 UTC Remarks: 5-fig cut numbers 80502 35..2 weak with deep fading Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Mon 4-8-2008, 1000 UTC Remarks: 5-fig cut numbers very weak Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Fri 8-8-2008, 1000 UTC Remarks: 5-fig cut numbers 85991 26153 28761 Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Sun 10-8-2008, 1000 UTC Remarks: 5-fig cut numbers 81072 64652 44672 Contr: (Westli)
9112.0	M08a	Mode: CW Date/time: Mon 11-8-2008, 1000 UTC Remarks: 5-fig cut numbers 46853 07083 85281 weak and fast Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Fri 15-8-2008, 1000 UTC Remarks: 5-fig cut numbers 86881 14151 65532 Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Sun 17-8-2008, 1000 UTC Remarks: 5-fig cut numbers 28753 82611 82611 IDs as sent Contr: (Westli)
9112.0	M08a	Mode: CW Date/time: Mon 18-8-2008, 1000 UTC Remarks: 5-fig cut numbers 20652 84131 50652 Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Fri 22-8-2008, 1000 UTC Remarks: 5-fig cut numbers 25231 08481 36811 Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Sun 24-8-2008, 1000 UTC Remarks: 5-fig cut numbers 11713 11851 33882 Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Mon 25-8-2008, 1000 UTC Remarks: 5-fig cut numbers 80041 53633 57711 Contr: (Westli)
9112.0	M08a	Mode: MCW Date/time: Fri 29-8-2008, 1000 UTC

		Remarks: 5-fig cut numbers 71432 weak - 1 ID copied Contr: (Westli)
9130	E10	Mode: AM Date/time: 22-8-2008, 1805 UTC Remarks: GROUP 16 ELMZF Contr: (sgdx2000)
9130	E10	Mode: AM Date/time: 25-8-2008, 1914 UTC Remarks: in progress Contr: (sgdx2000)
9130.0	E10	Mode: AM Date/time: Fri 15-8-2008, 1913 UTC Remarks: Jamming. Contr: (DXman)
9132	M42	Mode: 32 tone MFSK Date/time: 29-8-2008, 2159 UTC Remarks: DOSC. Offline crypto to unid embassy on link 10042 Contr: (LDO)
9145	M42	Mode: AM Date/time: 29-8-2008, 2205 UTC Remarks: DOSC. 6-tone alerting device Contr: (LDO)
9145	X06	Mode: AM Date/time: 11-8-2008, 1801 UTC Remarks: Mazielka. Sequence: 154632 Contr: (RiN)
9145	X06	Mode: AM Date/time: 18-8-2008, 1944 UTC Remarks: Mazielka. Sequence: 154632 Contr: (PUK)
9145	X06	Mode: AM Date/time: 18-8-2008, 1948 UTC Remarks: Mazielka. Sequence: 154632 Contr: (PUK)
9145	X06	Mode: AM Date/time: 18-8-2008, 1948 UTC Remarks: Mazielka. Sequence: 15463 Contr: (PUK)
9147	E07	Mode: AM Date/time: Thu 7-8-2008, 2030 UTC Remarks: 716:0 Contr: (HFD)
9147	E07	Mode: AM Date/time: Thu 21-8-2008, 2030 UTC Remarks: only carrier Contr: (HFD)
9150	M03	Mode: CW Date/time: 25-8-2008, 1545 UTC Remarks: 143/ 31 99616 Contr: (FN)
9150	M03c	Mode: CW Date/time: 28-7-2008, 1546 UTC Remarks: i.p., 1545z MON sked Contr: (FN)
9153.0	M08a	Mode: MCW Date/time: Fri 1-8-2008, 0700 UTC Remarks: 5-fig cut numbers 61232 68621 08621 started as V2a send same msg as on 5883 Contr: (Westli)
9153.0	M08a	Mode: MCW Date/time: Fri 8-8-2008, 0700 UTC Remarks: SSYL 5-fig atencion: 46161 81252 52712 Contr: (Westli)
9153.0	M08a	Mode: MCW Date/time: Wed 13-8-2008, 0700 UTC Remarks: 5-fig cut numbers 86723 54591 17512 Contr: (Westli)
9153.0	M08a	Mode: MCW Date/time: Wed 20-8-2008, 0700 UTC Remarks: 5-fig cut numbers 75162 58512 45811 Contr: (Westli)
9153.0	M08a	Mode: MCW Date/time: Wed 27-8-2008, 0700 UTC Remarks: 5-fig cut numbers 04271 04022 80651 started sending on this freq after stoppi Contr: (Westli)
9153.0	M08a	Mode: MCW Date/time: Fri 29-8-2008, 0700 UTC Remarks: 5-fig cut numbers 47231 48231 76061 Contr: (Westli)
9160	E06	Mode: AM Date/time: Sun 3-8-2008, 1830 UTC

		Remarks: 690:0 Contr: (HFD)
9176	M12	Mode: CW Date/time: 24-8-2008, 1900 UTC Remarks: 257 1 4171 64 Contr: (FN)
9176	M12	Mode: CW Date/time: 25-8-2008, 1900 UTC Remarks: 257 1 4545 63 Contr: (FN)
9176	M13	Mode: CW Date/time: 24-8-2008, 1905 UTC Remarks: Fast 5FGs. Ends TTT TTT or 000 000 Contr: (EB)
9202	E10	Mode: AM Date/time: 26-8-2008, 1836 UTC Remarks: YHF msg grp 11 NIBOS MBYFR BNIHM ZHGLQ LFUDP NNFIV MBBXG YZXUF IRGOT WQKWP Contr: (KK2)
9202	E11	Mode: USB Date/time: 27-8-2008, 1100 UTC Remarks: 186/00 Contr: (FN)
9230	E06	Mode: AM Date/time: Tue 26-8-2008, 2000 UTC Remarks: 482:0 Contr: (HFD)
9240.0	V02a	Mode: AM Date/time: Wed 6-8-2008, 1000 UTC Remarks: SSYL 5-fig atencion: 71102 03873 51313 Contr: (Westli)
9240.0	V02a	Mode: AM Date/time: Wed 13-8-2008, 1000 UTC Remarks: SSYL 5-fig atencion: 01562 125.3 15501 weak, QRM QSB Contr: (Westli)
9240.0	V02a	Mode: AM Date/time: Sat 16-8-2008, 1000 UTC Remarks: SSYL 5-fig atencion: 45643 58141 82401 weak/fading Contr: (Westli)
9240.0	V02a	Mode: AM Date/time: Sat 23-8-2008, 1000 UTC Remarks: SSYL 5-fig atencion: 50282 47762 36311 Contr: (Westli)
9252	XPA	Mode: AM Date/time: Fri 1-8-2008, 2020 UTC Remarks: msg Contr: (HFD)
9253	X06	Mode: AM Date/time: 15-8-2008, 2030 UTC Remarks: Mazielka. Sequence: 214356 Contr: (RiN)
9256	S06	Mode: AM Date/time: 25-8-2008, 1600 UTC Remarks: 176 904 8 Contr: (FN)
9264	M12	Mode: CW Date/time: 25-8-2008, 1620 UTC Remarks: 124 4281 74 Contr: (FN)
9272	M12	Mode: CW Date/time: 12-8-2008, 0920 UTC Remarks: 572 1 742 143 53132 43991 70640 etc Contr: (RiN)
9288	X06	Mode: AM Date/time: 8-8-2008, 0813 UTC Remarks: Mazielka. Sequence: 356412 Contr: (JS3)
9344	E07	Mode: AM Date/time: Wed 6-8-2008, 2040 UTC Remarks: 213:1 Contr: (HFD)
9448	E11	Mode: USB Date/time: Thu 21-8-2008, 0845 UTC Remarks: 232/00 Contr: (HFD)
9448	E11	Mode: USB Date/time: 22-8-2008, 1230 UTC Remarks: 312/00 Contr: (FN)
9576	E11	Mode: USB Date/time: 11-8-2008, 0915 UTC

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                Remarks: 284/00  Contr: (FN)
 9576      E11  Mode: USB   Date/time:  23-8-2008, 0915 UTC
                Remarks: 284/00  Contr: (FN)
 9576      E11  Mode: USB   Date/time:  25-8-2008, 0915 UTC
                Remarks: 284/00  Contr: (FN)
 9576      E11  Mode: USB   Date/time:  27-8-2008, 0915 UTC
                Remarks: 284/00  Contr: (FN)
 9610      E11  Mode: USB   Date/time:  22-8-2008, 1030 UTC
                Remarks: 312/00  Contr: (FN)
 9610      E11  Mode: USB   Date/time:  26-8-2008, 1030 UTC
                Remarks: 312/00  Contr: (FN)
 9670      S06  Mode: AM   Date/time:  27-8-2008, 0850 UTC
                Remarks: 328 570 6  Contr: (FN)
 9923      X06  Mode: AM  Date/time:  8-8-2008, 1518 UTC
                Remarks: Mazielka. Sequence: 463125  Contr: (PUK)
10118      XPA  Mode: AM  Date/time: Tue 5-8-2008, 0600 UTC
                Remarks: msg  Contr: (HFD)
10120      S06  Mode: AM   Date/time:  27-8-2008, 0840 UTC
                Remarks: 328 570 6  Contr: (FN)
10125      E11  Mode: USB   Date/time:  25-8-2008, 1230 UTC
                Remarks: 186/00  Contr: (FN)
10125.0    M08a Mode: CW  Date/time: Sat 2-8-2008, 0300 UTC
                Remarks: 5-fig cut numbers  07422 62161 68113  Contr:
                (Westli)
10125.0    M08a Mode: CW  Date/time: Tue 5-8-2008, 0300 UTC
                Remarks: 5-fig cut numbers  .621. 84033 62441  Contr:
                (Westli)
10125.0    M08a Mode: CW  Date/time: Tue 19-8-2008, 0300 UTC
                Remarks: 5-fig cut numbers      caught late, no IDs hrd
                Contr: (Westli)
10125.0    M08a Mode: CW  Date/time: Sat 23-8-2008, 0300 UTC
                Remarks: 5-fig cut numbers  62062 50031 34371  Contr:
                (Westli)
10125.0    M08a Mode: CW  Date/time: Tue 26-8-2008, 0300 UTC
                Remarks: 5-fig cut numbers  71271 86251 71452  Contr:
                (Westli)
10127      X06  Mode: AM  Date/time:  11-8-2008, 0803 UTC
                Remarks: Mazielka. Sequence: 421635  Contr: (JS3)
10127      X06  Mode: AM  Date/time:  25-8-2008, 0825 UTC
                Remarks: Mazielka. Sequence: 421635  Contr: (PUK)
10175.0    S06  Mode: AM  Date/time: Thu 21-8-2008, 1100 UTC
                Remarks: Slow YL, message for "895 895 463 463 7 7..."
                 Weak signal.  Contr: (PoRus)
10218      X06  Mode: AM  Date/time:  13-8-2008, 1804 UTC
                Remarks: Mazielka. Sequence: 246531  Contr: (RiN)
10221      M03  Mode: CW   Date/time:  26-8-2008, 1400 UTC
                Remarks: 323/31 13717  Contr: (FN)
10230      S06  Mode: AM   Date/time:  25-8-2008, 1200 UTC
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		Remarks: 831 465 7 Contr: (FN)
10272	M12	Mode: CW Date/time: 12-8-2008, 0900 UTC Remarks: 572 1 742 143 53132 43991 70640 etc Contr: (RiN)
10343	M12	Mode: CW Date/time: 25-8-2008, 1600 UTC Remarks: 124 4281 74 Contr: (FN)
10372	X06	Mode: AM Date/time: 25-8-2008, 0943 UTC Remarks: Mazielka. Sequence: 431625 Contr: (PUK)
10380	S06	Mode: AM Date/time: Mon 25-8-2008, 2015 UTC Remarks: 723:0 Contr: (HFD)
10416	XPA	Mode: AM Date/time: Fri 1-8-2008, 2000 UTC Remarks: msg Contr: (HFD)
10432.0	M08a	Mode: CW Date/time: Sun 3-8-2008, 0900 UTC Remarks: 5-fig cut numbers too weak to copy Contr: (Westli)
10432.0	M08a	Mode: MCW Date/time: Mon 4-8-2008, 0900 UTC Remarks: 5-fig cut numbers 750.. 76751 16271 very weak Contr: (Westli)
10446.0	M08a	Mode: CW Date/time: Thu 21-8-2008, 0300 UTC Remarks: 5-fig cut numbers 47543 03431 35011 Contr: (Westli)
10446.0	M08a	Mode: MCW Date/time: Thu 28-8-2008, 0300 UTC Remarks: 5-fig cut numbers 21701 07261 84062 Contr: (Westli)
10504	E07	Mode: AM Date/time: 10-8-2008, 1743 UTC Remarks: in progress Contr: (Wal)
10515.5	M42	Mode: Crowd-36 Date/time: 13-8-2008, 0734 UTC Remarks: DOSC, traffic Contr: (BCI)
10535	X06	Mode: AM Date/time: 14-8-2008, 1531 UTC Remarks: Mazielka. Sequence: 564213 Contr: (PUK)
10540	G06	Mode: AM Date/time: Mon 4-8-2008, 1900 UTC Remarks: 308:0 Contr: (HFD)
10550	X06	Mode: AM Date/time: 11-8-2008, 1840 UTC Remarks: Mazielka. Sequence 214356 Contr: (FN)
10631	M51	Mode: CW Date/time: 12-8-2008, 1833 UTC Remarks: NR 66 A 12 20:38:33 1986 BT ZZZKC FCLEL Contr: (BCI)
10635.9	M51	Mode: CW Date/time: 21-7-2008, 1656 UTC Remarks: NR 13 J 23 19:25:50 CH990 BT UVKCV ... Contr: (BCI)
10753	E07	Mode: AM Date/time: Thu 21-8-2008, 2010 UTC Remarks: 716:0 Contr: (HFD)
10825	E07	Mode: AM Date/time: 27-8-2008, 1410 UTC Remarks: 5NG¥s, Ends 1420Utc with "000000" Contr: (KK2)
10830	E06	Mode: AM Date/time: Wed 13-8-2008, 1400 UTC Remarks: 857-469/103=66502 Contr: (HFD)
10871.7	MX	Mode: CW Date/time: 2-8-2008, 0050 UTC

		Remarks: Cluster beacon "D" Contr: (Jon-FL)
10871.7	MX	Mode: CW Date/time: 2-8-2008, 0947 UTC
		Remarks: Cluster beacon "D" Contr: (AB)
10871.7	MX	Mode: CW Date/time: 26-8-2008, 2011 UTC
		Remarks: Cluster beacon "D" Contr: (AB)
10871.7	MX	Mode: CW Date/time: 30-8-2008, 1947 UTC
		Remarks: Cluster beacon "D" Contr: (AB)
10871.9	MX	Mode: CW Date/time: 30-8-2008, 1947 UTC
		Remarks: Cluster beacon "S" Contr: (AB)
10872	MX	Mode: CW Date/time: 2-8-2008, 0053 UTC
		Remarks: Cluster beacon "C" Contr: (Jon-FL)
10872	MX	Mode: CW Date/time: 2-8-2008, 0458 UTC
		Remarks: Cluster beacon "C" Contr: (AB)
10872	MX	Mode: CW Date/time: 21-8-2008, 0219 UTC
		Remarks: Beacon "S" Contr: (Jon-FL)
10872	MX	Mode: AM Date/time: Thu 28-8-2008, 1732 UTC
		Remarks: "D" Sewastopol exac Contr: (HFD)
10872	MX	Mode: AM Date/time: Thu 28-8-2008, 1733 UTC
		Remarks: "C" Moscow Contr: (HFD)
10872	MX	Mode: CW Date/time: 30-8-2008, 1947 UTC
		Remarks: Cluster beacon "C" Contr: (AB)
10872.0	MX	Mode: CW Date/time: Fri 8-8-2008, 0916 UTC
		Remarks: -** [D/ı] Contr: (DXman)
10872.0	MX	Mode: CW Date/time: Fri 8-8-2008, 0919 UTC
		Remarks: -*-* [C/“] Contr: (DXman)
10912	M51	Mode: CW Date/time: 12-8-2008, 1834 UTC
		Remarks: NR 66 A 12 20:38:33 1986 BT ZZZKC FCLEL BUBDE Contr: (BCI)
11103	M51	Mode: CW Date/time: 17-8-2008, 1520 UTC
		Remarks: CESTEI Contr: (ML4)
11411	X06	Mode: AM Date/time: 12-8-2008, 1812 UTC
		Remarks: Mazielka. Sequence: 164532 Contr: (Dan)
11411	X06	Mode: AM Date/time: 14-8-2008, 0606 UTC
		Remarks: Mazielka. Sequence: 164532 Contr: (RiN)
11412.5	M42	Mode: Crowd-36 Date/time: 13-8-2008, 0742 UTC
		Remarks: DOSC, traffic Contr: (BCI)
11417	M42	Mode: Crowd-36 Date/time: 8-8-2008, 1554 UTC
		Remarks: in progress Contr: (ML4)
11421	M42	Mode: Baudot 200bd/500Hz Date/time: 30-8-2008, 2014 UTC
		Remarks: Russian Intel. Auto broadcasting null msg Contr: (LDO)
11430	V13	Mode: LSB Date/time: 18-8-2008, 0715 UTC
		Remarks: New Star Contr: (TI)
11438	X06	Mode: AM Date/time: 4-8-2008, 1551 UTC
		Remarks: Mazielka. Sequence: 532614 Contr: (PUK)
11472	X06	Mode: AM Date/time: 11-8-2008, 1910 UTC
		Remarks: Mazielka. Sequence: 325614 Contr: (RiN)
11486	E11	Mode: USB Date/time: Tue 5-8-2008, 0715 UTC

		Remarks: 382/00 Contr: (HFD)
11511	M51	Mode: CW Date/time: 5-8-2008, 0900 UTC Remarks: NR 68 A 05 11:31:05 1986 BT HQOKB XHYJZ SBFQC CNBJU ... Contr: (BCI)
11565.0	M08a	Mode: CW Date/time: Sat 2-8-2008, 0400 UTC Remarks: 5-fig cut numbers 07422 62161 68113 Contr: (Westli)
11572	X06	Mode: AM Date/time: 14-8-2008, 0605 UTC Remarks: Mazielka. Sequence: 164532 Contr: (RiN)
11830	S06	Mode: AM Date/time: 27-8-2008, 0740 UTC Remarks: 745 210 6 Contr: (FN)
12088	E07	Mode: AM Date/time: Wed 6-8-2008, 1720 UTC Remarks: 305:0 Contr: (HFD)
12100	X06	Mode: AM Date/time: 13-8-2008, 1533 UTC Remarks: Mazielka. Sequence: 612534 Contr: (PUK)
12100	X06	Mode: AM Date/time: 14-8-2008, 1006 UTC Remarks: Mazielka. Sequence: 612534 Contr: (RiN)
12100	X06	Mode: AM Date/time: 15-8-2008, 1424 UTC Remarks: Mazielka. Sequence: 612534 Contr: (PUK)
12100	X06	Mode: AM Date/time: 19-8-2008, 1408 UTC Remarks: Mazielka. Sequence: 612534 Contr: (PUK)
12100	X06c	Mode: AM Date/time: 6-8-2008, 0716 UTC Remarks: Mazielka: 6 tone rising scale Contr: (JS3)
12149	X06	Mode: AM Date/time: 5-8-2008, 0941 UTC Remarks: Mazielka. Sequence: 154263 Contr: (PUK)
12158	X06	Mode: AM Date/time: 14-8-2008, 1522 UTC Remarks: Mazielka. Sequence: 564213 Contr: (PUK)
12165	S06	Mode: AM Date/time: 25-8-2008, 1210 UTC Remarks: 831 465 7 Contr: (FN)
12172	M12	Mode: CW Date/time: 11-8-2008, 1347 UTC Remarks: i.p., MON 1300/20/40 sked 13872/13372/12172 Contr: (FN)
12177	X06	Mode: AM Date/time: 25-8-2008, 0755 UTC Remarks: Mazielka. Sequence: 641523 Contr: (PUK)
12186	X06	Mode: AM Date/time: 14-8-2008, 0604 UTC Remarks: Mazielka. Sequence: unknown Contr: (RiN)
12186	X06	Mode: AM Date/time: 14-8-2008, 1226 UTC Remarks: Mazielka. Sequence: 214356 Contr: (RiN)
12186	X06	Mode: AM Date/time: 14-8-2008, 1228 UTC Remarks: Mazielka. Sequence: 214356 Contr: (PUK)
12186	X06	Mode: AM Date/time: 15-8-2008, 1132 UTC Remarks: Mazielka. Sequence: 214356 Contr: (AB)
12186.5	M42	Mode: Crowd-36 Date/time: 12-8-2008, 1857 UTC Remarks: DOSC, traffic Contr: (BCI)
12190	E06	Mode: AM Date/time: Wed 6-8-2008, 1405 UTC Remarks: 457:0 Contr: (HFD)
12202	E11	Mode: USB Date/time: 22-8-2008, 1415 UTC Remarks: 311/00 Contr: (FN)

12209 M42 Mode: Baudot 200.33Bd/500Hz Date/time: 23-8-2008, 1250 UTC
Remarks: Russian Intelligence broadcasting multi figure group message Contr: (LDO)
12211 M24 Mode: CW Date/time: 25-8-2008, 0930 UTC
Remarks: 963 00000 Contr: (FN)
12215 X06 Mode: AM Date/time: 15-8-2008, 1017 UTC
Remarks: Mazielka Contr: (LDO)
12218 E07 Mode: AM Date/time: Wed 6-8-2008, 2000 UTC
Remarks: 213:1 Contr: (HFD)
12224 X06 Mode: AM Date/time: 10-8-2008, 1749 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (Dan)
12224 X06 Mode: AM Date/time: 12-8-2008, 1452 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (PUK)
12224 X06 Mode: AM Date/time: 13-8-2008, 1354 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (PUK)
12224 X06 Mode: AM Date/time: 13-8-2008, 1400 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (RiN)
12224 X06 Mode: AM Date/time: 14-8-2008, 0609 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (RiN)
12224 X06 Mode: AM Date/time: 14-8-2008, 1200 UTC
Remarks: Mazielka Contr: (Dan)
12224 X06 Mode: AM Date/time: 14-8-2008, 1200 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (Dan)
12224 X06 Mode: AM Date/time: 20-8-2008, 1324 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (PUK)
12224 X06 Mode: AM Date/time: 26-8-2008, 1627 UTC
Remarks: Mazielka. Sequence: 463125 Contr: (PUK)
12225.5 M51 Mode: CW Date/time: 19-8-2008, 0652 UTC
Remarks: NR 54 A 19 09:23:09 1986 BT RYETD OELKN VAHQN Contr: (BCI)
12226 X06 Mode: AM Date/time: 11-8-2008, 1912 UTC
Remarks: Mazielka. Squence 463125 Contr: (FN)
12229 E11 Mode: USB Date/time: Tue 5-8-2008, 1125 UTC
Remarks: ip w/ msg Contr: (HFD)
13372 M12 Mode: CW Date/time: 27-8-2008, 1320 UTC
Remarks: 831 000 Contr: (FN)
13388 E07 Mode: AM Date/time: Wed 6-8-2008, 1700 UTC
Remarks: 305:0 Contr: (HFD)
13388.5 M42 Mode: Crowd-36 Date/time: 20-8-2008, 1727 UTC
Remarks: DOSC. Traffic Contr: (BCI)
13417.5 M42 Mode: Crowd-36 Date/time: 12-8-2008, 1909 UTC
Remarks: DOSC, traffic Contr: (BCI)
13493 X06 Mode: AM Date/time: 12-8-2008, 0856 UTC
Remarks: Mazielka. Sequence: 542136 Contr: (PUK)
13501 M51 Mode: CW Date/time: 30-7-2008, 1646 UTC
Remarks: NR CH1 A 01 19:33:34 1990 BT FBXSZ IVKCU UOTQE ... Contr: (BCI)
13506 X06 Mode: AM Date/time: 14-8-2008, 0611 UTC

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                  Remarks: Mazielka. Sequence: 164532  Contr: (RiN)
13527.7    MX     Mode: CW  Date/time:  3-8-2008, 0532 UTC
                  Remarks: Cluster beacon "D"  Contr: (AB)
13527.7    MX     Mode: CW  Date/time:  4-8-2008, 2039 UTC
                  Remarks: Cluster beacon "D"  Contr: (AB)
13527.7    MX     Mode: CW  Date/time:  26-8-2008, 2011 UTC
                  Remarks: Cluster beacon "D"  Contr: (AB)
13527.7    MX     Mode: CW  Date/time:  30-8-2008, 1947 UTC
                  Remarks: Cluster beacon "D"  Contr: (AB)
13527.7    MX     Mode: CW  Date/time:  31-8-2008, 0813 UTC
                  Remarks: Cluster beacon "D"  Contr: (AB)
13527.9    MX     Mode: CW  Date/time:  30-8-2008, 1947 UTC
                  Remarks: Cluster beacon "S"  Contr: (AB)
13528      MX     Mode: CW  Date/time:  4-8-2008, 2039 UTC
                  Remarks: Cluster beacon "C"  Contr: (AB)
13528      MX     Mode: CW  Date/time:  30-8-2008, 1947 UTC
                  Remarks: Cluster beacon "C"  Contr: (AB)
13528      MX     Mode: CW  Date/time:  31-8-2008, 0813 UTC
                  Remarks: Cluster beacon "C"  Contr: (AB)
13528.0    MX     Mode: CW  Date/time: Fri 8-8-2008, 0914 UTC
                  Remarks: -** [D/1]  Contr: (DXman)
13528.4    MX     Mode: CW  Date/time:  3-8-2008, 0533 UTC
                  Remarks: Cluster beacon "M"  Contr: (AB)
13528.4    MX     Mode: CW  Date/time:  31-8-2008, 1339 UTC
                  Remarks: Cluster beacon "M"  Contr: (AB)
13549      M51    Mode: CW  Date/time:  25-7-2008, 1719 UTC
                  Remarks: NR 56 J 27 19:10:05 1990 T BT VJMPX
                  AHAAN ENMRU ...  Contr: (BCI)
13596.9    M51    Mode: CW  Date/time:  30-7-2008, 1719 UTC
                  Remarks: NR 89 A 01 19:20:11 1990 BT HAXKM
                  AQSBM NREAN PAIVY...  Contr: (BCI)
13872      M12    Mode: CW   Date/time:  27-8-2008, 1300 UTC
                  Remarks: 831 000  Contr: (FN)
13930      S06    Mode: AM  Date/time: Tue 12-8-2008, 1500 UTC
                  Remarks: 493:0  Contr: (HFD)
13930      S06    Mode: AM  Date/time:  12-8-2008, 1500 UTC
                  Remarks: 493 00000  Contr: (Rin)
13933      X06    Mode: AM  Date/time:  19-8-2008, 0820 UTC
                  Remarks: Mazielka. Sequence: 246531  Contr: (PUK)
13961      X06    Mode: AM  Date/time:  26-8-2008, 0745 UTC
                  Remarks: Mazielka. Sequence: 216354  Contr: (PUK)
13962      M12    Mode: CW  Date/time:  30-8-2008, 1920 UTC
                  Remarks: 893 000  Contr: (FN)
13962.0    M13    Mode: CW  Date/time: Sat 16-8-2008, 1920 UTC
                  Remarks: Sign-off with 893 TTT 893 TTT 893 TTT 893
                  TTT 893 TTT then off the air  Contr:
14377      E07    Mode: AM   Date/time:  7-8-2008, 1900 UTC
                  Remarks: 479 1 3826 47  Contr: (FN)
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14441	M51	Mode: CW Date/time: 13-8-2008, 1620 UTC Remarks: FAV22 transmission "VVV DE FAV22" Contr: (BCI)
14501	X06	Mode: AM Date/time: 14-8-2008, 1334 UTC Remarks: Mazielka. Sequence: 214356 Contr: (PUK)
14650	X06	Mode: AM Date/time: 19-8-2008, 1401 UTC Remarks: Mazielka. Sequence: 215346 Contr: (PUK)
14655	M42	Mode: Crowd36 Date/time: 26-8-2008, 1400 UTC Remarks: DOSC Contr: (PoRus)
14655.0	M42	Mode: CROWD-36 Date/time: Mon 25-8-2008, 1400 UTC Remarks: Message CROWD36 CIS, crypto, 40 Bd. Contr: (PoRus)
14655.0	M42	Mode: CROWD-36 Date/time: Tue 26-8-2008, 1400 UTC Remarks: CIS, crypto, message CROWD36 without OFDM Contr: (PoRus)
14655.0	M42	Mode: CROWD-36 Date/time: Wed 27-8-2008, 0845 UTC Remarks: crypto message, S-9+20. Contr: (PoRus)
14728	M12	Mode: CW Date/time: 7-8-2008, 1850 UTC Remarks: 179 1 9269 137 Contr: (FN)
14812	X06	Mode: AM Date/time: 19-8-2008, 0931 UTC Remarks: Mazielka. Sequence: 246531 Contr: (PUK)
14832	M42	Mode: Baudot 200.33Bd/500Hz Date/time: 24-8-2008, 1240 UTC Remarks: Russian Intelligence broadcasting same multi figure group as on 12209 kHz Contr: (LDO)
14843	M12	Mode: CW Date/time: 30-8-2008, 1900 UTC Remarks: 893 000 Contr: (FN)
14970	X06	Mode: AM Date/time: 26-8-2008, 0821 UTC Remarks: Mazielka. Sequence: 216354 followed by msg in Crowd36 mode Contr: (MG)
14970	X06	Mode: AM Date/time: 26-8-2008, 0837 UTC Remarks: Mazielka. Sequence 216354 Contr: (FN)
15810	S06	Mode: AM Date/time: 12-8-2008, 1400 UTC Remarks: 493 00000 Contr: (Rin)
15810	S06	Mode: AM Date/time: Tue 12-8-2008, 1400 UTC Remarks: 493:0 Contr: (HFD)
15828	X06	Mode: AM Date/time: 8-8-2008, 1021 UTC Remarks: Mazielka. Sequence: 256134 Contr: (PUK)
16025	X06	Mode: AM Date/time: 10-8-2008, 1736 UTC Remarks: Mazielka. Sequence: 156234 Contr: (Dan)
16117	X06	Mode: AM Date/time: 14-8-2008, 1314 UTC Remarks: Mazielka. Sequence: 463125 Contr: (PUK)
16128	M12	Mode: CW Date/time: 7-8-2008, 1837 UTC Remarks: i.p., ends 1841z Contr: (FN)
16178	SK01	Mode: RDFT Date/time: 21-8-2008, 1630 UTC Remarks: sked w/ RDFT signal passing file 16327338.txt Contr: (TS)
16178	SK01	Mode: RDFT Date/time: 22-8-2008, 1630 UTC Remarks: repeat sked of 17435 passing file 16327338.txt

		Contr: (TS)
16257	X06	Mode: AM Date/time: 26-8-2008, 0827 UTC Remarks: Mazielka. Sequence: 542136 Contr: (PUK)
16331.7	MX	Mode: CW Date/time: 2-8-2008, 0458 UTC Remarks: Cluster beacon "D" Contr: (AB)
16331.7	MX	Mode: CW Date/time: 4-8-2008, 2039 UTC Remarks: Cluster beacon "D" Contr: (AB)
16331.7	MX	Mode: CW Date/time: 31-8-2008, 0813 UTC Remarks: Cluster beacon "D" Contr: (AB)
16331.9	MX	Mode: CW Date/time: 31-8-2008, 1010 UTC Remarks: Cluster beacon "S" Contr: (AB)
16332.0	MX	Mode: CW Date/time: Fri 8-8-2008, 0913 UTC Remarks: -** [D/1] Contr: (DXman)
16350.5	M42	Mode: Crowd-36 Date/time: 22-8-2008, 0842 UTC Remarks: DOSC. Traffic Contr: (BCI)
16525	E03a	Mode: USB Date/time: 18-8-2008, 0502 UTC Remarks: Cherry Ripe. Id 20150 Contr: (TI)
16525	E03a	Mode: USB Date/time: 21-8-2008, 0504 UTC Remarks: Cherry Ripe Contr: (EW)
17435	SK01	Mode: RDFT Date/time: 4-8-2008, 1630 UTC Remarks: Several bursts of digital (prob. RDFT) Contr: (MT2)
17435	SK01	Mode: RDFT Date/time: 21-8-2008, 1600 UTC Remarks: sked w/ RDFT signal passing file 16327338.txt Contr: (TS)
17435	SK01	Mode: RDFT Date/time: 22-8-2008, 1610 UTC Remarks: passing file 16327338.txt Contr: (TS)
17435	V02a	Mode: AM Date/time: 4-8-2008, 1706 UTC Remarks: SS, YL 5 figure groups. Missed call up. Contr: (MT2/HS)
17435	V02a	Mode: AM Date/time: 22-8-2008, 1708 UTC Remarks: w/ 5F msgs Contr: (TS)
17435	V02a	Mode: AM Date/time: 22-8-2008, 1723 UTC Remarks: w/ 5F msgs Contr: (TS)
17435.0	M08a	Mode: AM Date/time: Tue 26-8-2008, 1740 UTC Remarks: SPANISH YL NUMBERS 5 GRPS ENDS WITH FINAL FINAL Contr: (SXJ97B)
17435.0	SK01	Mode: USB Date/time: Mon 4-8-2008, 1630 UTC Remarks: Several bursts of digital signals (prob. RDFT) Contr: (MT2)
17435.0	V02a	Mode: AM Date/time: Sat 2-8-2008, 1700 UTC Remarks: SSYL 5-fig atencion: 21263 52001 21711 Contr: (Westli)
17435.0	V02a	Mode: AM Date/time: Mon 4-8-2008, 1706 UTC Remarks: SS, YL, 5 figure groups. Missed call up Contr: (MT2)
17435.0	V02a	Mode: AM Date/time: Wed 6-8-2008, 1700 UTC Remarks: SSYL 5-fig atencion: 25562 71282 70623

Contr: (Westli)
17435.0 V02a Mode: AM Date/time: Tue 19-8-2008, 1700 UTC
Remarks: SSYL 5-fig atencion: 45371 85383 27822
Contr: (Westli)
17435.0 V02a Mode: AM Date/time: Thu 21-8-2008, 1700 UTC
Remarks: SSYL 5-fig atencion: 82541 70113 27101
Contr: (Westli)
17435.0 V02a Mode: AM Date/time: Wed 27-8-2008, 1700 UTC
Remarks: SSYL 5-fig atencion: .3462 00062 weak
QRM/QRN/QSB Contr: (Westli)
17436 M08a Mode: CW Date/time: 4-8-2008, 1607 UTC
Remarks: 1 set of M8a Contr: (MT2)
17436 SK01 Mode: RDFT Date/time: 4-8-2008, 1615 UTC
Remarks: 4 sets digital msgs Contr: (MT2)
17436 SK01 Mode: RDFT Date/time: 22-8-2008, 1600 UTC
Remarks: sked in RDFT, too weak to decode Contr: (TS)
17436 SK01 Mode: RDFT Date/time: 26-8-2008, 1606 UTC
Remarks: sked w/ RDFT signal, too weak to decode
Contr: (TS)
17436 V02a Mode: AM Date/time: 4-8-2008, 1603 UTC
Remarks: 5 figure sets of V2a Contr: (MT2)
17436.0 SK01 Mode: USB Date/time: Mon 4-8-2008, 1603 UTC
Remarks: 2 5 figure sets of V2a w/ ~5 min. between, 7
min. 1 set of M8a, 4 sets of SK01 b Contr: (MT2)
17436.0 V02a Mode: AM Date/time: Mon 4-8-2008, 1600 UTC
Remarks: SSYL 5-fig barely audible Contr: (Westli)
17436.0 V02a Mode: AM Date/time: Fri 8-8-2008, 1700 UTC
Remarks: SSYL 5-fig too weak Contr: (Westli)
17436.0 V02a Mode: AM Date/time: Sun 10-8-2008, 1700 UTC
Remarks: SSYL 5-fig atencion: 79741 74411 13062
Contr: (Westli)
17436.0 V02a Mode: AM Date/time: Mon 11-8-2008, 1700 UTC
Remarks: SSYL 5-fig atencion: 68772 42022 21022
Contr: (Westli)
17436.0 V02a Mode: AM Date/time: Mon 18-8-2008, 1700 UTC
Remarks: SSYL 5-fig atencion: 41182 35621 very weak
Contr: (Westli)
17436.0 V02a Mode: AM Date/time: Mon 25-8-2008, 1700 UTC
Remarks: SSYL 5-fig atencion: 71743 25542 35322
very weak Contr: (Westli)
17515 V02a Mode: AM Date/time: 21-8-2008, 1600 UTC
Remarks: w/ 5F msgs Contr: (TS)
17515 V02a Mode: AM Date/time: 22-8-2008, 1600 UTC
Remarks: w/ 71743 25542 35322 callup & 5F msgs.
Eronously started on 17436 and swit Contr: (TS)
17515 V02a Mode: AM Date/time: 22-8-2008, 1610 UTC
Remarks: w/ 5F msgs Contr: (TS)
17515 V02a Mode: AM Date/time: 26-8-2008, 1600 UTC

		Remarks: w/ 5F msgs, interfered with by World Harvest Radio on 17520 Contr: (TS)
17515.0	V02a	Mode: AM Date/time: Sat 2-8-2008, 1600 UTC Remarks: SSYL 5-fig too weak to copy Contr: (Westli)
17515.0	V02a	Mode: AM Date/time: Wed 6-8-2008, 1600 UTC Remarks: SSYL 5-fig atencion: 25562 71282 70623 Contr: (Westli)
17515.0	V02a	Mode: AM Date/time: Thu 21-8-2008, 1600 UTC Remarks: SSYL 5-fig atencion: 82541 70113 27101 QRM from commercial radio Contr: (Westli)
17515.0	V02a	Mode: AM Date/time: Mon 25-8-2008, 1600 UTC Remarks: SSYL 5-fig atencion: 71743 25542 weak Contr: (Westli)
17515.0	V02a	Mode: AM Date/time: Thu 28-8-2008, 1600 UTC Remarks: SSYL 5-fig atencion: 11281 very weak Contr: (Westli)
18465	E03a	Mode: USB Date/time: 18-8-2008, 0502 UTC Remarks: Cherry Ripe. Id 20150 Contr: (TI)
18465	E03a	Mode: USB Date/time: 21-8-2008, 0504 UTC Remarks: Cherry Ripe Contr: (EW)
18864	E03a	Mode: USB Date/time: 11-8-2008, 1120 UTC Remarks: Cherry Ripe Contr: (ML3)
18864	E03a	Mode: USB Date/time: 14-8-2008, 1315 UTC Remarks: Cherry Ripe Contr: (ML3)
18864	E03a	Mode: USB Date/time: 14-8-2008, 2305 UTC Remarks: Cherry Ripe Contr: (TI)
18864	E03a	Mode: USB Date/time: 15-8-2008, 0012 UTC Remarks: Cherry Ripe Contr: (TI)
18864	E03a	Mode: USB Date/time: 18-8-2008, 2205 UTC Remarks: Cherry Ripe Contr: (TI)
18864	E03a	Mode: USB Date/time: 18-8-2008, 2305 UTC Remarks: Cherry Ripe. Id 24122 Contr: (TI)
18864	E03a	Mode: USB Date/time: 18-8-2008, 2305 UTC Remarks: Cherry Ripe Contr: (TI)
18864	E03a	Mode: USB Date/time: 19-8-2008, 0004 UTC Remarks: Cherry Ripe. Id 09628 Contr: (TI)
18864	E03a	Mode: USB Date/time: 22-8-2008, 0002 UTC Remarks: Cherry Ripe. Id 02003 Contr: (TI)
18864	E03a	Mode: USB Date/time: 24-8-2008, 2328 UTC Remarks: Cherry Ripe Contr: (TI)
18864	E03a	Mode: USB Date/time: 25-8-2008, 0008 UTC Remarks: Cherry Ripe. Id 24122 Contr: (TI)
19202	M42	Mode: MKSF-32 Date/time: 23-8-2008, 0736 UTC Remarks: DOSC, Moscow. Offline crypto to unid embassy after 11177 00041 Contr: (LDO)
20048.0	MX	Mode: CW Date/time: Fri 8-8-2008, 0909 UTC Remarks: -** [D/1] Contr: (DXman)
20474	E03a	Mode: USB Date/time: 4-8-2008, 1003 UTC

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                  Remarks: Cherry Ripe  Contr: (TI)
20610      E03a   Mode: USB  Date/time:  19-8-2008, 0730 UTC
                  Remarks: Cherry Ripe  Contr: (TI)
21866      E03a   Mode: USB  Date/time:  14-8-2008, 1315 UTC
                  Remarks: Cherry Ripe  Contr: (ML3)
21866      E03a   Mode: USB  Date/time:  15-8-2008, 0111 UTC
                  Remarks: Cherry Ripe  Contr: (TI)
21866      E03a   Mode: USB  Date/time:  18-8-2008, 2305 UTC
                  Remarks: Cherry Ripe. Id 24122  Contr: (TI)
21866      E03a   Mode: USB  Date/time:  18-8-2008, 2310 UTC
                  Remarks: Cherry Ripe  Contr: (TI)
23461      E03a   Mode: USB  Date/time:  11-8-2008, 1120 UTC
                  Remarks: Cherry Ripe  Contr: (ML3)
24644      E03a   Mode: USB  Date/time:  18-8-2008, 2212 UTC
                  Remarks: Cherry Ripe  Contr: (TI)

--------------------------------------------------------------------------------

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```

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Vambo	Vambo, CO, USA
Wal	Wallauer, Germany
Westli	Westli, CA, USA

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Relevant mailing lists:

- Utility DXers Forum (utility and spooks related logs).
  Go to http://groups.yahoo.com/group/udxf/ and follow the instructions.
  Website: http://www.udxf.nl

- Spooks (spooks related info and logs)
  Go to the web interface to subscribe, fill in the form and follow the instructions that will be mailed to you.
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